

DEPARTMENT OF COMMERCE AND LABOR

BUREAU OF THE CENSUS

E. DANA DURAND, DIRECTOR

—
BULLETIN 111
—

COTTON PRODUCTION

AND STATISTICS OF COTTONSEED PRODUCTS: 1910



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LETTER OF TRANSMITTAL.

DEPARTMENT OF COMMERCE AND LABOR,
BUREAU OF THE CENSUS,
Washington, D. C., June 23, 1911.

SIR:

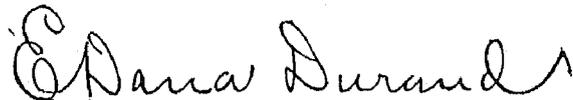
I have the honor to transmit herewith Census Bulletin 111, which is a report on the production of cotton and of the manufacture of cottonseed products. The statistics were collected and compiled in this bureau under the supervision of William M. Steuart, chief statistician for manufactures, assisted by H. J. Zimmerman.

The report is presented in four divisions: (1) Annual cotton production in the United States, as returned by ginners and delinters, distributed by states and counties, from 1906 to 1910, inclusive, with statistics of production for previous years; (2) world's cotton production from 1907 to 1910, by countries; (3) supply and distribution of cotton in the United States for specified periods in 1909, 1910, and 1911; and (4) the statistics relating to the manufacture of cottonseed products collected at the census of manufactures in 1910.

During the season of 1910-11, as in previous years, 10 preliminary reports of cotton ginned to specified dates have been issued. The present report gives the aggregate of the figures included in the preliminary statements, and covers the twelfth consecutive year for which statistics of cotton ginned have been collected and published by this bureau.

In addition to the statistics of production the bureau publishes each season a complementary report on the supply and distribution of cotton for the year ending August 31, and three reports showing stocks of cotton in this country held, respectively, on November 1, January 1, and March 1.

Very respectfully,



Director of the Census.

HON. CHARLES NAGEL,
Secretary of Commerce and Labor.

(3)

COTTON PRODUCTION IN THE UNITED STATES.

A comparative summary is given in Table 1 of the cotton production of the United States from 1899 to 1910, inclusive, as ascertained from the reports of ginners and delinters. These statistics are given in running bales and equivalent 500-pound bales, and show the quantities of the different kinds of cotton produced.

TABLE 1.—COMPARATIVE SUMMARY: CROPS OF 1899 TO 1910.

GROWTH YEAR.	CROP, INCLUDING LINTERS.						
	Running bales, counting round as half bales.	Equivalent 500-pound bales.	Running bales.				
			Total.	Upland.		Sea-island.	Linters.
				Square.	Round.		
1910.....	11,965,962	12,005,688	12,022,405	11,421,522	112,887	90,368	397,628
1909.....	10,386,209	10,315,382	10,461,554	9,902,595	150,690	94,791	313,478
1908.....	13,432,131	13,587,306	13,553,283	12,870,994	242,305	93,858	346,126
1907.....	11,325,882	11,375,461	11,425,156	10,871,652	198,549	86,895	268,060
1906.....	13,305,265	13,595,498	13,439,374	12,791,541	268,219	57,550	322,064
1905.....	10,725,602	10,804,556	10,865,520	10,242,648	279,836	112,539	230,497
1904.....	13,697,310	13,679,954	13,845,385	13,198,944	296,151	104,317	245,973
1903.....	10,015,721	10,045,615	10,400,825	9,359,472	770,208	75,393	195,752
1902.....	10,784,473	10,827,168	11,275,105	9,992,665	981,264	104,953	196,223
1901.....	9,748,546	9,675,771	10,120,971	9,132,215	744,851	77,879	166,026
1900.....	10,245,602	10,266,527	10,629,648	9,629,762	768,092	88,294	143,500
1899.....	9,507,786	9,459,935	9,760,518	9,043,231	505,464	97,279	114,544

Table 2 shows the quantity of cotton grown in the years 1906 to 1910, inclusive; the per cent of the total crop represented by the crop of each state; and the rank of each state according to the quantity produced. Crop figures for earlier years may be found in Tables 14 and 15.

Where bales are mentioned in the comparative statements of this report, unless otherwise stated, it will be understood that the reference is to gross bales of 500 pounds and that linters are included. In Table 17, where the quantity of cotton ginned is distributed by counties, linters are not included because cottonseed-oil mills procure seed from wide areas and it is impossible to credit the linters to the localities where grown.

Production in 1910.—The quantity of cotton reported for the crop of 1910, with linters included and round bales counted as half bales, is 11,965,962 running bales; expressed in gross 500-pound bales, the crop amounted to 12,005,688 bales, which is 1,690,306 bales, or 16.4 per cent, greater than the crop of 1909, but 1,581,618 bales, or 11.6 per cent, less than the crop of 1908.

The average annual production of cotton in the United States for the past five years was 12,175,867

bales, or 170,179 bales more than the crop of 1910. Of the total production in 1910, the territory east of the Mississippi River contributed 6,701,447 bales, or 55.8 per cent, compared with 6,093,334 bales, or 59.1 per cent, in 1909, and 7,355,178 bales, or 54.1 per cent, in 1908. The states west of the Mississippi River returned 5,304,241 bales, or 44.2 per cent, in 1910, compared with 4,222,048 bales, or 40.9 per cent, in 1909, and 6,232,128 bales, or 45.9 per cent, in 1908. During the five-year period shown in Table 2, the states east of the Mississippi contributed 54.4 per cent of the aggregate production, while those west of that river produced 45.6 per cent. The smallest aggregate production by the states east of the Mississippi in this period was 6,093,334 bales in 1909, and the largest 7,355,178 bales in 1908, a variation of 1,261,844 bales; the smallest aggregate production by the states west of the river was 4,222,048 bales in 1909, and the largest 7,233,210 bales in 1906, a variation of 3,011,162 bales. Although the percentage of the total production contributed by each of the two sections has fluctuated greatly for individual years, the actual production in the eastern section has been comparatively regular.

TABLE 2.—PRODUCTION, BY STATES, OF UPLAND, SEA-ISLAND, AND LINTER COTTON, WITH PER CENT OF THE TOTAL CROP REPORTED FROM EACH STATE, AND RANK OF EACH STATE IN THE PRODUCTION OF COTTON: 1906 TO 1910.

STATE.	Growth year.	COTTON PRODUCED.									Per cent of total ginned. ¹	Rank in production.
		Running bales, counting round as half bales and including linters.	Equivalent 500-pound bales.			Total.	Running bales.			Linters.		
			Including linters.		Excluding linters.		Upland.		Sea-island.			
			Gross.	Net.	Gross.		Square.	Round.				
United States.....	1910	11,965,962	12,005,688	11,483,160	11,608,616	12,022,405	11,421,522	112,887	90,368	897,628	100.0	.....
	1909	10,386,209	10,316,882	9,863,075	10,004,940	10,461,554	9,902,595	150,690	94,791	813,478	100.0	.....
	1908	13,432,131	13,687,900	13,002,422	13,241,799	13,553,283	12,870,994	242,305	93,858	846,126	100.0	.....
	1907	11,325,832	11,376,461	10,882,385	11,107,179	11,425,156	10,871,652	198,549	86,895	268,060	100.0	.....
	1906	13,305,265	13,695,498	13,015,734	13,278,909	13,439,374	12,791,641	268,219	57,560	322,064	100.0	.....
Alabama.....	1910	1,221,225	1,223,285	1,169,795	1,194,250	1,226,962	1,186,442	11,474	.....	29,046	10.2	4
	1909	1,065,377	1,049,776	1,003,214	1,024,350	1,075,201	1,030,313	19,648	.....	25,240	10.2	5
	1908	1,360,601	1,374,140	1,314,569	1,345,713	1,369,841	1,322,762	18,481	.....	28,598	10.1	4
	1907	1,133,285	1,132,966	1,083,388	1,112,698	1,142,212	1,104,166	17,854	.....	20,192	10.0	5
	1906	1,268,674	1,284,421	1,220,211	1,261,522	1,276,908	1,228,899	24,468	.....	22,541	9.4	4
Arkansas.....	1910	624,223	647,674	611,670	621,233	626,177	796,206	3,899	.....	26,072	7.1	7
	1909	718,117	734,084	702,586	713,463	721,262	694,457	6,291	.....	20,514	7.1	6
	1908	1,020,704	1,058,089	1,013,402	1,032,920	1,027,714	989,084	14,019	.....	24,011	7.8	6
	1907	770,214	793,415	759,630	774,721	773,461	748,603	6,495	.....	18,363	7.0	7
	1906	916,106	963,790	923,036	941,177	920,903	889,471	9,694	.....	21,838	7.1	6
California ²	1910	6,186	6,186	5,914	5,986	6,186	5,986	.....	.....	200	0.1	14
Florida.....	1910	68,437	60,040	57,746	58,949	68,437	37,755	.....	29,417	1,205	0.5	12
	1909	62,936	54,947	52,854	54,011	62,936	33,719	.....	28,158	1,059	0.5	11
	1908	71,923	63,221	60,891	62,089	71,923	35,823	.....	34,775	1,325	0.5	11
	1907	57,736	50,711	48,865	49,794	57,736	27,733	.....	28,935	1,008	0.4	11
	1906	62,830	57,135	54,946	55,945	62,830	37,478	.....	23,995	1,357	0.4	11
Georgia.....	1910	1,867,915	1,820,610	1,739,572	1,767,202	1,867,915	1,764,243	.....	47,935	55,737	15.2	2
	1909	1,901,830	1,853,276	1,770,844	1,804,014	1,901,830	1,798,055	.....	52,060	51,705	18.0	2
	1908	2,026,999	1,980,077	1,891,902	1,931,179	2,027,144	1,932,356	290	44,549	49,949	14.6	2
	1907	1,901,576	1,855,789	1,773,239	1,815,834	1,903,016	1,814,170	2,880	44,713	41,293	16.3	2
	1906	1,667,866	1,620,830	1,553,638	1,592,572	1,670,448	1,604,637	5,164	25,484	35,163	12.0	2
Louisiana.....	1910	256,375	255,733	244,510	245,048	258,180	244,984	3,609	.....	9,587	2.1	10
	1909	269,573	264,676	252,955	253,412	273,938	254,095	8,729	.....	11,114	2.6	9
	1908	481,979	480,350	465,510	470,136	493,467	455,055	22,970	.....	15,436	3.0	9
	1907	679,782	694,066	664,775	675,428	699,119	642,696	38,673	.....	17,760	6.1	8
	1906	979,270	1,012,573	970,193	987,779	1,001,353	933,390	44,166	.....	23,797	7.4	5
Mississippi.....	1910	1,254,419	1,303,688	1,251,473	1,262,680	1,254,419	1,212,104	.....	.....	42,315	10.9	3
	1909	1,109,580	1,120,676	1,071,854	1,083,675	1,109,580	1,073,105	.....	.....	36,475	10.8	4
	1908	1,668,461	1,704,972	1,631,563	1,655,945	1,668,556	1,620,229	191	.....	48,136	12.5	3
	1907	1,478,689	1,504,303	1,439,340	1,468,177	1,481,986	1,439,584	6,594	.....	35,808	13.2	3
	1906	1,521,491	1,569,530	1,502,618	1,530,743	1,522,635	1,482,363	2,089	.....	38,083	11.5	3
Missouri.....	1910	61,206	62,159	59,408	59,633	61,413	58,674	205	.....	2,444	0.5	11
	1909	46,313	47,070	45,032	45,141	46,313	44,444	.....	.....	1,869	0.4	.....
	1908	60,609	64,632	61,880	61,907	61,061	57,604	905	.....	2,552	0.5	.....
	1907	35,997	38,184	36,600	36,243	35,997	34,105	.....	.....	1,892	0.3	.....
	1906	53,795	56,472	54,104	54,358	53,795	51,763	.....	.....	2,032	0.5	.....
North Carolina.....	1910	774,752	726,850	692,760	700,142	774,752	753,087	.....	.....	21,065	6.0	8
	1909	649,885	615,562	586,908	600,606	640,886	633,740	.....	.....	16,140	6.0	7
	1908	701,355	663,167	632,307	646,958	701,355	683,628	.....	.....	17,728	4.9	8
	1907	652,930	619,650	590,921	605,310	652,930	637,961	.....	.....	14,969	5.5	9
	1906	625,642	594,387	566,815	570,326	620,642	611,258	.....	.....	15,384	4.4	9
Oklahoma.....	1910	955,951	958,955	917,347	923,063	970,128	905,665	28,354	.....	36,109	8.0	6
	1909	573,786	566,060	541,268	544,954	587,704	538,761	27,835	.....	21,108	5.5	8
	1908	705,200	706,815	676,541	690,752	728,779	665,767	47,157	.....	15,855	5.2	7
	1907	870,238	882,984	845,385	862,383	891,850	827,364	43,225	.....	21,261	7.8	6
	1906	893,062	918,375	879,712	897,823	912,789	852,234	39,454	.....	21,101	6.8	7
South Carolina.....	1910	1,240,540	1,191,929	1,137,658	1,163,501	1,240,540	1,197,952	.....	13,016	29,572	8.9	5
	1909	1,164,309	1,126,049	1,075,169	1,099,955	1,164,309	1,122,809	.....	14,573	26,927	10.9	3
	1908	1,242,012	1,195,235	1,140,936	1,170,608	1,242,012	1,201,314	.....	14,534	26,164	8.8	5
	1907	1,186,672	1,142,244	1,090,348	1,119,220	1,186,672	1,150,318	.....	13,247	23,107	10.0	4
	1906	931,726	895,130	854,328	876,181	931,726	904,531	.....	8,071	19,124	6.6	8
Tennessee.....	1910	337,596	349,476	334,622	331,947	337,596	321,103	.....	.....	16,493	2.9	9
	1909	253,397	259,719	246,570	246,630	253,397	240,757	.....	.....	12,640	2.5	10
	1908	349,525	359,859	344,487	344,485	349,525	333,884	400	.....	15,441	2.6	10
	1907	277,114	286,301	274,114	275,235	277,445	266,103	661	.....	10,681	2.5	10
	1906	304,054	317,641	304,258	306,037	304,054	293,023	.....	.....	11,031	2.3	10
Texas.....	1910	3,072,932	3,172,488	3,038,323	3,049,409	3,105,660	2,917,340	65,256	.....	122,964	26.4	1
	1909	2,554,520	2,607,492	2,496,504	2,522,811	2,598,613	2,425,237	88,187	.....	85,189	25.3	1
	1908	3,724,575	3,913,084	3,761,409	3,814,485	3,793,518	3,558,407	137,886	.....	97,225	28.8	1
	1907	2,267,293	2,360,478	2,262,032	2,300,179	2,308,376	2,166,937	82,167	.....	69,272	20.8	1
	1906	4,066,472	4,281,824	4,105,191	4,174,206	4,138,114	3,885,977	143,284	.....	108,853	31.5	1
Virginia.....	1910	16,095	14,815	14,107	14,815	16,095	16,095	.....	.....	.....	0.1	13
	1909	10,746	10,095	9,623	10,095	10,746	10,746	.....	.....	.....	0.1	.....
	1908	13,113	12,326	11,749	12,326	13,113	13,113	.....	.....	.....	0.1	.....
	1907	9,602	9,223	8,835	9,223	9,602	9,602	.....	.....	.....	0.1	.....
	1906	14,596	13,862	13,223	13,862	14,596	14,596	.....	.....	.....	0.1	.....
All other states ³	1910	8,045	8,611	8,256	4,158	8,045	3,886	.....	.....	4,159	0.1	.....
	1909	5,839	5,891	5,634	2,292	5,839	2,341	.....	.....	3,498	0.1	.....
	1908	5,074	5,439	5,216	2,296	5,074	1,908	.....	.....	3,166	(⁴)	.....
	1907	4,754	4,902	4,734	2,734	4,754	2,310	.....	.....	2,444	(⁴)	.....
	1906	3,681	4,028	3,862	2,270	3,681	1,921	.....	.....	1,760	(⁴)	.....

¹ Percentages are calculated on basis of equivalent 500-pound bales, including linters.

² Included in "All other states" in 1909.

³ Includes Arizona, Kansas, Kentucky, and New Mexico, and the linter production of Illinois; also California in 1909.

⁴ Less than one-tenth of 1 per cent.

The production for all the states, except Georgia and Louisiana, showed a material increase in 1910 over 1909. Oklahoma and North Carolina made an especially good showing for 1910, each state having not only a greater production than for 1908, the former by 35.7 per cent and the latter by 9.6 per cent, but also the largest crop ever produced. The crop of South Carolina in 1910 nearly equaled, in number of bales, its crop of 1908, and exceeded its production for any other year. The Texas crop in 1910 was more than half a million bales larger than in 1909, but did not reach the dimensions attained in 1908, 1906, or 1904. The unstable condition of cotton production in Texas is disclosed by the fact that the state showed a decline of 44.9 per cent in 1907, compared with 1906, when the largest crop that it ever produced was grown, and an increase in 1908 of 65.8 per cent over the crop of 1907, while in 1909 the crop decreased 33.4 per cent from that of the preceding year, and in 1910 increased over that of 1909 by 21.7 per cent. This state produced 26.4 per cent of the total crop of the country in 1910, 25.3 per cent in 1909, 28.8 per cent in 1908, 20.8 per cent in 1907, and 31.5 per cent in 1906. In 1910 the production was 94,585 bales less than the state average for the five years shown in Table 2.

The production in Georgia from the crop of 1910 amounted to 1,820,610 500-pound gross weight bales. While this is only 160,000 bales less than the crop of 1908, the largest crop ever produced in the state, it is the smallest grown in the last four years. The production in Louisiana has been falling off steadily for a number of years. The crop in 1906 was 1,012,573 bales; in 1907, 694,066 bales; in 1908, 486,350 bales; in 1909, 264,676 bales; and in 1910, 255,733 bales. The decline in production in this state is due to several causes, the principal one being the ravages of the boll weevil. A considerable portion of the land planted in cotton in former years is now being planted in sugar cane and in rice.

Conditions affecting the crop of 1910.—The agents of the bureau were requested to forward, with their final report for the season, a statement of the conditions which had affected favorably or adversely the production of cotton in the localities in which they were employed. In specifying the causes of decrease 117 agents in ten states mentioned a cold spring and a late freeze, combined with excessive rains; 68, in eight states, high temperature and drought in July and August; 70, in five states, ravages of the boll weevil; 5, in four states, lack of labor; and 11, in four states, a decrease in the acreage, caused by the presence of the boll weevil or the fear of its advent.

The weather conditions which affected the crop were unusual, a cold wave at the end of April and a wet freeze in the latter part of October both having done much damage.

The reasons assigned for the larger crops in the localities reporting them are an increased acreage, encouraged by the high price of cotton; the planting

of improved varieties of cotton; better seed selection; and especially better methods of cultivation, some of which operate materially in minimizing the destructiveness of the boll weevil.

The boll weevil.—Cotton growers are becoming more and more successful in subduing the disastrous ravages of the boll weevil. The Federal and state departments of agriculture have given invaluable assistance in this work. They have proved that the cotton plant can be bred to have low fruit limbs and to throw most of its life force into its lower and middle portions, and that by better methods of cultivation and fertilization the maturing of these parts of the plant can be so hastened that a large percentage of the crop may be so far advanced that the weevil will not have multiplied early enough to do much damage. For the following information concerning the status of the boll weevil this bureau is indebted to the Bureau of Entomology of the United States Department of Agriculture:

As a dry season retards the advance of the boll weevil more than any other one factor, the summer and winter preceding the 1910 crop were exceptionally disastrous to it in all the territory infested, except a strip running along the Gulf coast from southwestern Mississippi through Louisiana to southwestern Texas; in fact, west of a diagonal line drawn from Paris, in Lamar County, Tex., to Kerrville, in Kerr County, the insect was exterminated. (See map, p. 26.) In a strip of land 40 miles wide running across the state of Arkansas, and in Washington and Sharkey Counties, Miss., the boll weevil could not be found until July 5, 1910, and the same conditions which exterminated the pest in this territory reduced its numbers greatly in other regions. This applied to two-thirds of the territory infested in 1909, to all in Arkansas, to three-fourths of that in Louisiana, and to all but six counties in southwestern Mississippi. As is well known, the spreading of the weevil is almost entirely by flight, beginning about mid-August and continuing into November if conditions are favorable. An early and most unusual movement northeastward in Mississippi occurred in July, the probable explanation for this being that a series of storms of great severity carried the weevil into this territory before the normal time for dispersion. A late October freeze destroyed many weevils and terminated the dispersion movement, which was under such headway that it would probably have taken the insect into much additional territory. As a result of unfavorable conditions, especially in the western portion of Oklahoma, the infested territory in that state in 1910 was 6,500 square miles less than in 1909. In Arkansas there was a considerable increase. In Mississippi a belt about 50 miles wide, extending diagonally across the state from the north central to the southeastern part, became infested for the first time. The invasion passed on, entering into Alabama for the first time, and covered more or less of the five southwestern counties of that state.

During 1910 the weevil was found in nearly 30 per cent of the cotton acreage of the United States. It was in evidence in 100 per cent of the cotton acreage of Louisiana, 80 per cent in Texas, 30 per cent in Arkansas, 25 per cent in Mississippi, and 35 per cent in Oklahoma. In 1910 the total area infested was 268,000 square miles, a gain of 14,200 square miles over 1909. The average annual advance of the pest into new territory has been 27,000 square miles. Cotton is now being produced in about 402,000 square miles of territory in which the weevil has not made its way. Assuming the advance in the future will be at the same rate as it has been in the past, it will be 15 years before the eastern limit of the cotton belt becomes infested. On the west it is certain that the present limits will not be materially increased because of dryness and cold winters, which make for the insect an impassable barrier.

Notwithstanding the spread of the pest to sections heretofore free from it and the fact that much damage must necessarily result therefrom, it is gratifying to know that cotton growers are learning to very materially minimize such damage. Indeed, in some localities where the crop was well-nigh destroyed during the first years following the appearance of the weevil, the situation has been placed under such control and the methods of cultivation have been so improved that the yield of cotton in normal years is now larger than before the advent of the insect.

Estimates of unginned cotton.—Careful estimates of the quantity of cotton remaining to be ginned are secured during the final canvass of the ginneries, which is made each season between the 1st and 10th of March. These estimates are included in the production statistics for the year, and are shown for the past five years, by states, in Table 3.

TABLE 3.—*Estimated quantity of cotton remaining to be ginned after last canvass, by states: 1906 to 1910.*

[Included in crop statistics for the growth year.]

STATE.	ESTIMATED UNGINNED COTTON AND LINTERS (RUNNING SQUARE BALES, COUNTING ROUND AS HALF BALES) FROM CROP OF—				
	1910	1909	1908	1907	1906
United States.....	71,084	49,448	93,278	127,974	148,783
Alabama.....	4,744	8,038	3,337	6,604	4,532
Arkansas.....	7,960	3,852	11,348	15,320	22,944
Florida.....	46	17	149	157	157
Georgia.....	8,409	6,730	8,231	16,306	8,604
Louisiana.....	783	735	1,764	6,877	7,008
Mississippi.....	9,365	6,387	14,751	34,971	17,261
North Carolina.....	7,760	4,489	6,924	10,345	7,435
Oklahoma.....	6,621	3,702	15,875	9,832	26,194
South Carolina.....	5,350	5,208	5,880	12,223	4,985
Tennessee.....	3,703	1,875	3,704	6,403	10,971
Texas.....	13,058	12,628	22,635	6,108	33,400
All other states.....	3,175	887	1,220	1,769	4,486

Linter cotton.—The short fiber called linters, obtained by the cottonseed-oil mills in reginning cotton seed before extracting the oil, enters into many lines of manufacture in which a better grade of cotton would otherwise have to be used. It is used largely in the manufacture of mattresses, batting, cheap yarns, rope, twine, felt hats, and explosives, for mixing with shoddy, and for upholstering purposes. The quantity has materially increased in recent years, as the seed is being ginned more closely than heretofore and more seed is being treated annually. The quantity of linters produced from reginning the seed from the crop of 1899 amounted to 114,544 running bales, as compared with 397,628 bales from the crop of 1910. The average price of this cotton for 1910 was returned as 3.3 cents per pound.

Periodical cotton reports.—During the season of 1911-12, as heretofore, practically semimonthly reports of cotton ginned will be issued, and there will be four reports on stocks and consumption of cotton. The dates to which the statistics of these reports will relate and the dates on which they are expected to be published are presented in the following schedule.

Cotton reports to be issued during the season of 1911-12.

SUBJECT OF REPORT.	Date to which report relates (close of business).	Date of publication (10 a. m.).
Ginning.....	August 31.....	September 8.
Supply and distribution.....	August 31.....	September 26.
Ginning.....	September 24.....	October 2.
Ginning.....	October 7.....	October 25.
Ginning.....	October 31.....	November 8.
Supply and distribution.....	October 31.....	November 25.
Ginning.....	November 13.....	November 21.
Ginning.....	November 30.....	December 8.
Ginning.....	December 12.....	December 20.
Ginning.....	December 31.....	January 9.
Supply and distribution.....	December 31.....	January 25.
Ginning.....	January 15.....	January 23.
Ginning.....	February 28.....	March 20.
Supply and distribution.....	February 28.....	March 25.

The statistics of these reports show conditions at the close of business on the days to which the reports relate. Summaries showing the number of bales ginned to specified dates are telegraphed to the bureau on the last day of each canvass for the ginning reports, and on the following morning these summaries are compiled in the bureau and given to the public at 10 o'clock. For every report the canvassing agents are given approximately one week in which to visit the ginneries and secure the returns. Within a few hours after the information is made public the preliminary reports are printed on preaddressed cards and mailed to the ginneries and to other persons requesting them. At the time of telegraphing the summaries the agents are required to mail the individual returns of the ginneries which they have collected and used in preparing these summaries. This method affords a valuable check on the statistics of the report, as the card returns are compared and added by the clerks of the bureau and necessary revisions made in the published summaries.

The data for the supply and distribution reports are gathered in the cotton-growing states by the local agents of the bureau who collect the ginning reports. In all other states the data are secured by correspondence and by special agents detailed from the bureau to canvass the important mill centers. Because of the impracticability of organizing all the territory for this class of reports and of the necessity of relying upon correspondence for some of the data, it is not practicable to publish the results earlier than the dates indicated in the schedule, which show a lapse of about three weeks between the date to which a report relates and that on which it is expected to be published.

Cotton ginned to specified dates.—The quantity of cotton, exclusive of linters, ginned to given dates from 1904 to 1910, inclusive, and the percentage of the total crop ginned to each report date are shown in Tables 4 and 5.

As it is not practicable to express the statistics of the quantity of cotton ginned in equivalent 500-pound bales before the close of the season, the statistics in Table 4 are for running bales, counting round as half bales and excluding linters.

TABLE 4.—COTTON GINNED TO SPECIFIED DATES AND THROUGHOUT THE SEASON, BY STATES: 1904 TO 1910.

[Quantities are given in running bales, except that round bales are counted as half bales. Linters are not included.]

STATE.	Growth year.	COTTON GINNED TO—									Total.
		Sept. 1.	Sept. 25.	Oct. 18.	Nov. 1.	Nov. 14.	Dec. 1.	Dec. 13.	Jan. 1.	Jan. 16.	
United States.....	1910	353,011	2,312,074	5,423,028	7,345,953	8,780,433	10,139,712	10,695,443	11,084,515	11,253,147	11,568,334
	1909	388,242	2,568,160	5,630,967	7,017,849	8,112,199	8,876,886	9,368,085	9,647,327	9,787,592	10,072,731
	1908	402,229	2,500,039	6,296,160	8,191,557	9,595,809	11,008,661	11,904,200	12,405,208	12,666,203	13,086,005
	1907	200,278	1,532,602	4,420,258	6,128,502	7,300,665	8,343,396	9,284,070	9,961,505	10,339,551	11,067,822
	1906	407,561	2,067,283	4,931,621	6,906,305	8,562,242	10,027,808	11,112,789	11,741,039	12,170,190	12,938,201
	1905	476,655	2,355,716	4,900,560	6,457,595	7,501,180	8,689,663	9,297,819	9,725,426	9,939,634	10,495,105
	1904	374,821	.....	6,417,894	.....	9,786,640	.....	11,971,477	.....	12,707,000	13,461,337
Alabama.....	1910	4,196	201,488	525,226	743,878	895,894	1,063,498	1,128,470	1,102,728	1,174,122	1,102,179
	1909	13,535	187,832	512,323	676,331	805,849	917,406	987,264	1,017,460	1,026,869	1,040,137
	1908	26,298	316,849	694,104	891,667	1,020,724	1,175,629	1,265,958	1,302,338	1,316,803	1,332,003
	1907	8,132	137,658	416,912	609,297	744,627	856,596	961,739	1,032,177	1,070,000	1,113,093
	1906	24,312	221,851	469,647	676,747	834,910	1,018,955	1,136,844	1,190,062	1,216,606	1,241,133
	1905	50,686	331,807	644,105	810,566	944,391	1,067,424	1,133,818	1,170,608	1,202,145	1,228,000
	1904	25,678	.....	6,417,894	.....	1,065,438	.....	1,319,711	.....	1,411,834	1,451,362
Arkansas.....	1910	28	22,319	101,363	324,769	479,122	625,226	676,259	724,100	747,326	798,166
	1909	440	33,926	330,884	472,252	557,857	613,939	642,322	657,357	664,522	697,603
	1908	323	30,465	347,468	536,785	605,232	776,461	847,312	910,423	931,133	996,093
	1907	75	10,193	163,371	291,143	385,528	484,181	572,418	626,551	666,810	751,851
	1906	446	35,837	163,102	306,762	453,658	570,924	673,090	731,547	764,100	804,268
	1905	58	7,293	119,899	210,523	309,280	423,738	475,574	510,599	534,687	593,915
	1904	76	.....	237,711	.....	556,023	.....	769,388	.....	825,919	901,223
Florida.....	1910	608	11,252	27,238	38,924	40,847	54,396	60,092	63,105	64,778	67,172
	1909	3,542	19,581	35,006	45,664	51,612	59,132	58,556	60,138	60,765	61,877
	1908	2,624	16,657	34,027	43,234	51,497	48,234	64,131	66,855	68,624	70,593
	1907	942	7,863	19,863	28,026	35,454	40,681	45,695	50,085	53,486	56,068
	1906	1,893	10,479	24,321	34,707	42,278	50,028	55,916	60,011	60,432	61,473
	1905	4,615	20,649	37,609	48,718	56,623	65,250	69,752	72,889	75,229	78,833
	1904	1,956	.....	40,642	.....	60,291	.....	75,713	.....	81,855	87,525
Georgia.....	1910	20,491	365,407	912,612	1,241,825	1,436,997	1,625,573	1,706,816	1,762,070	1,779,902	1,812,178
	1909	106,301	636,212	1,113,341	1,484,913	1,659,828	1,673,301	1,706,070	1,813,112	1,827,923	1,850,125
	1908	64,693	414,898	1,119,223	1,387,641	1,664,637	1,739,657	1,868,963	1,930,733	1,952,113	1,977,050
	1907	34,823	342,704	878,643	1,202,485	1,383,694	1,518,199	1,632,643	1,725,965	1,771,832	1,860,323
	1906	25,298	281,685	720,310	1,003,718	1,193,147	1,391,224	1,514,637	1,571,592	1,601,922	1,632,703
	1905	116,205	596,711	1,066,938	1,304,041	1,439,392	1,539,279	1,620,741	1,670,466	1,695,434	1,725,272
	1904	61,706	.....	1,552,570	.....	1,540,749	.....	1,790,792	.....	1,898,397	1,962,890
Louisiana.....	1910	1,101	45,799	113,770	154,634	183,818	217,956	233,347	240,170	242,677	246,788
	1909	3,450	62,610	143,977	183,112	217,433	233,675	243,643	252,188	253,927	258,469
	1908	4,618	79,042	207,092	287,885	341,953	394,918	435,603	453,210	458,762	466,543
	1907	756	45,750	180,720	280,144	351,241	424,433	501,612	569,730	593,439	662,032
	1906	14,033	139,611	321,123	411,757	552,919	672,873	764,850	836,459	888,677	956,473
	1905	3,550	46,503	134,718	225,283	282,936	363,318	416,237	456,330	484,823	511,738
	1904	5,433	.....	383,600	.....	663,423	.....	872,403	.....	982,598	1,083,638
Mississippi.....	1910	538	83,768	358,851	570,611	759,152	970,626	1,066,216	1,131,562	1,157,457	1,212,104
	1909	1,070	96,825	390,096	572,131	731,354	869,368	956,609	1,005,903	1,028,418	1,073,105
	1908	4,320	199,001	621,399	898,148	1,080,183	1,297,677	1,441,947	1,522,160	1,551,792	1,620,325
	1907	104	71,043	410,065	634,005	794,992	955,414	1,120,905	1,230,127	1,287,339	1,442,881
	1906	0,690	166,573	365,958	591,254	792,778	952,919	1,184,914	1,286,294	1,361,838	1,483,409
	1905	4,413	96,789	219,408	513,594	668,642	841,775	951,656	1,033,794	1,084,409	1,168,059
	1904	2,652	.....	561,572	.....	1,031,644	.....	1,415,376	.....	1,576,533	1,774,464
North Carolina.....	1910	4	46,051	250,141	386,096	494,920	615,637	664,722	702,150	718,405	753,087
	1909	1,070	80,498	255,040	370,801	466,797	535,653	581,954	605,693	615,529	633,744
	1908	101	89,063	276,222	373,713	451,434	554,346	615,736	647,605	661,660	683,628
	1907	43	40,888	216,104	320,979	399,500	468,447	523,257	565,207	591,851	637,061
	1906	32	44,877	223,437	311,448	384,275	490,540	546,624	571,628	587,750	611,268
	1905	3,028	119,237	334,649	439,027	510,202	573,560	608,183	629,344	637,701	652,518
	1904	134	.....	309,007	.....	510,427	.....	659,135	.....	704,801	749,712
Oklahoma.....	1910	398	110,530	421,625	585,237	727,654	829,337	863,561	895,926	905,051	919,842
	1909	1,370	134,377	329,429	412,631	476,471	505,584	514,639	525,610	532,303	552,678
	1908	8	5,705	132,553	217,629	322,051	431,054	494,984	585,010	612,144	689,845
	1907	16	31,422	240,210	379,568	484,557	598,723	685,595	742,042	752,700	848,977
	1906	13	17,570	198,709	341,808	484,096	574,043	643,667	701,814	741,633	871,061
	1905	102	22,610	179,108	281,960	363,241	476,907	532,362	670,076	665,330	660,027
	1904	1,093	.....	620,144	.....	629,277	.....	769,950	.....	761,789	799,822
South Carolina.....	1910	203	160,621	516,232	729,117	858,291	1,036,889	1,107,556	1,154,693	1,175,905	1,210,968
	1909	18,949	285,401	624,301	791,629	913,440	993,158	1,064,819	1,100,309	1,114,533	1,137,332
	1908	9,399	289,069	660,678	821,608	938,926	1,051,550	1,132,183	1,176,220	1,192,723	1,215,848
	1907	3,041	185,656	537,273	735,894	831,361	943,868	1,014,356	1,068,376	1,093,416	1,169,665
	1906	3,240	131,262	396,551	549,857	654,458	769,785	838,828	868,977	887,057	912,662
	1905	83,719	324,083	642,382	822,232	912,603	993,315	1,042,877	1,075,936	1,092,932	1,112,863
	1904	4,215	.....	620,357	.....	930,713	.....	1,085,725	.....	1,144,514	1,192,926
Tennessee.....	1910	.....	1,602	57,769	129,840	192,213	249,027	269,670	289,299	298,615	321,103
	1909	.....	17,152	101,250	148,670	183,529	200,267	221,465	226,791	228,915	240,767
	1908	.....	23,109	131,073	198,783	243,493	279,654	302,627	317,010	321,727	334,084
	1907	.....	2,474	60,644	108,093	139,093	177,048	204,450	225,292	238,404	266,433
	1906	.....	7,394	38,853	62,616	82,001	104,001	134,242	162,552	232,533	293,252
	1905	.....	3,306	67,134	108,907	150,152	203,334	225,447	240,565	248,933	260,030
	1904	.....	79,552	.....	.....	.....	195,873	.....	271,181	.....	320,317
Texas.....	1910	325,435	1,283,212	2,070,261	2,405,157	2,636,696	2,794,125	2,840,259	2,883,393	2,914,166	2,940,968
	1909	237,901	1,061,558	1,675,428	1,920,188	2,104,329	2,213,144	2,262,938	2,326,143	2,377,804	2,469,331
	1908	239,928	960,607	2,047,796	2,502,802	2,893,528	3,193,096	3,308,874	3,450,007	3,528,081	3,629,350
	1907	152,257	657,423	1,280,324	1,523,147	1,705,629	1,849,202	1,989,098	2,061,667	2,145,695	2,203,021
	1906	233,536	1,008,556	1,993,807	2						

TABLE 5.—PER CENT OF THE TOTAL CROP GINNED TO SPECIFIED DATES, BY STATES: 1904 TO 1910.
 [Based on figures given in Table 4.]

STATE.	Growth year.	PER CENT OF TOTAL CROP GINNED TO—								
		Sept. 1.	Sept. 25.	Oct. 18.	Nov. 1.	Nov. 14.	Dec. 1.	Dec. 13.	Jan. 1.	Jan. 16.
United States.....	1910	3.1	20.0	46.9	63.5	75.9	87.7	92.5	95.8	97.5
	1909	3.9	25.6	54.9	69.7	80.5	88.1	92.9	95.8	97.2
	1908	3.1	19.8	48.1	62.6	73.3	84.1	91.0	95.3	96.8
	1907	1.8	13.9	40.0	55.4	66.0	75.5	84.0	90.0	93.5
	1906	3.1	15.8	38.0	53.2	65.9	77.2	85.6	90.4	93.8
	1905	4.5	22.4	47.6	61.5	71.5	82.8	88.6	92.7	95.2
	1904	2.8		47.7		72.8		80.0		94.9
Alabama.....	1910	0.4	16.9	44.1	62.8	75.1	89.2	94.7	97.5	98.5
	1909	1.3	18.1	49.3	65.0	77.5	88.2	94.9	97.8	98.7
	1908	2.0	23.7	52.1	66.9	76.6	88.3	95.0	97.8	98.9
	1907	0.7	12.4	37.5	54.7	66.9	77.0	86.4	92.7	96.1
	1906	2.0	17.9	37.8	54.5	67.3	82.1	91.6	95.9	98.0
	1905	4.1	27.0	52.5	66.5	76.9	86.9	92.3	95.8	97.9
	1904	1.8		47.2		73.4		90.9		97.3
Arkansas.....	1910	(1)	2.8	20.2	40.7	60.0	78.3	84.7	90.7	93.6
	1909	0.1	12.0	47.4	67.7	80.0	88.0	92.1	94.2	95.3
	1908	(1)	8.1	34.9	53.9	66.8	78.0	85.1	91.4	93.5
	1907	(1)	1.3	21.7	38.7	51.3	64.4	76.1	83.3	88.7
	1906	(1)	4.0	18.2	34.3	50.7	63.8	75.3	81.8	85.4
	1905	(1)	1.2	20.0	35.2	51.6	70.8	79.4	86.3	89.3
	1904	(1)		28.4		61.7		85.4		91.0
Florida.....	1910	0.9	16.8	40.5	57.9	69.7	81.0	89.4	93.9	96.4
	1909	5.7	31.6	56.6	73.8	83.4	90.7	94.6	97.2	98.2
	1908	3.6	23.6	48.2	61.2	72.9	83.0	90.8	94.7	97.2
	1907	1.7	13.9	35.1	50.5	62.6	71.8	80.6	88.4	94.4
	1906	3.1	17.0	39.0	59.5	68.8	81.4	91.0	96.0	98.3
	1905	5.9	26.2	47.6	61.8	71.8	82.8	88.5	92.5	95.4
	1904	2.2		40.4		68.9		86.5		93.5
Georgia.....	1910	1.1	20.2	50.4	68.5	79.3	89.7	94.2	97.2	98.2
	1909	5.7	29.0	60.2	74.9	84.3	90.4	95.5	98.0	98.8
	1908	3.3	26.0	56.6	70.2	79.1	88.0	94.5	97.7	98.7
	1907	1.9	18.4	47.2	64.6	74.6	81.6	87.8	92.8	95.2
	1906	1.5	17.2	44.1	61.5	73.1	85.2	92.8	96.3	98.1
	1905	6.7	34.6	61.8	75.6	85.4	90.4	93.9	96.8	98.3
	1904	3.1		53.6		78.5		91.2		96.7
Louisiana.....	1910	0.4	13.6	46.1	62.7	74.5	83.3	94.6	97.3	98.3
	1909	1.3	24.2	55.7	72.8	84.1	92.3	96.2	97.6	98.2
	1908	1.0	16.9	44.6	61.7	73.3	84.0	93.4	97.1	98.3
	1907	0.1	6.9	27.3	42.3	53.1	64.1	75.8	84.7	90.4
	1906	1.5	14.6	33.6	46.2	57.0	70.4	80.0	87.5	93.0
	1905	0.7	9.1	26.3	44.0	55.3	71.0	81.3	89.2	94.6
	1904	0.5		35.4		61.2		80.5		90.7
Mississippi.....	1910	(1)	6.9	29.6	47.6	62.6	80.1	88.0	93.4	95.5
	1909	0.2	9.0	36.4	53.3	68.2	81.0	89.1	93.7	95.8
	1908	0.3	12.3	38.4	55.1	67.0	80.1	89.0	93.9	95.8
	1907	(1)	4.9	28.4	44.0	55.1	66.2	77.7	85.3	89.2
	1906	0.7	10.6	24.6	39.9	53.4	67.9	79.9	86.9	91.8
	1905	0.4	8.3	27.3	44.0	57.1	72.1	81.5	88.5	92.8
	1904	0.1		31.6		58.1		79.8		88.8
North Carolina.....	1910	(1)	6.1	33.2	51.3	65.7	81.7	88.3	93.2	95.4
	1909	0.2	12.7	40.2	58.5	73.7	84.5	91.8	95.6	97.1
	1908	(1)	13.0	40.4	54.7	66.0	81.1	90.1	94.7	96.8
	1907	(1)	6.3	33.9	51.3	62.6	73.4	82.0	88.6	92.8
	1906	(1)	7.0	36.6	51.0	62.9	80.3	89.4	93.5	96.2
	1905	0.5	18.3	51.3	67.3	78.2	87.9	93.2	96.4	97.7
	1904	(1)		41.2		69.3		87.9		94.0
Oklahoma.....	1910	(1)	12.0	46.8	63.6	79.1	90.2	94.4	97.4	98.4
	1909	0.2	24.3	59.6	74.7	86.2	91.5	93.1	95.1	96.4
	1908	(1)	0.8	19.2	31.0	46.7	62.5	71.8	84.9	88.8
	1907	(1)	3.7	28.3	44.0	57.1	70.5	80.8	87.4	92.2
	1906	(1)	2.0	22.8	39.2	55.6	65.8	73.8	80.5	85.1
	1905	(1)	3.4	27.1	42.7	55.0	72.3	80.7	87.3	90.2
	1904	0.1		35.2		67.6		88.3		95.6
South Carolina.....	1910	(1)	13.3	42.0	60.2	73.4	85.6	91.5	95.3	97.1
	1909	1.7	25.1	54.9	69.6	80.3	87.8	93.6	96.7	98.0
	1908	0.8	23.8	54.3	67.6	77.2	86.5	93.3	96.7	98.1
	1907	0.3	16.0	46.2	63.3	73.2	81.1	87.2	91.0	94.0
	1906	0.4	14.4	43.5	60.3	71.7	84.4	91.9	95.2	97.2
	1905	3.5	29.1	57.8	73.9	82.0	89.3	93.8	96.7	98.3
	1904	0.4		62.8		78.0		91.0		95.9
Tennessee.....	1910		0.5	18.0	40.4	59.9	77.8	84.0	90.1	93.0
	1909	(1)	7.1	42.1	61.8	76.2	85.7	92.0	94.2	95.1
	1908	(1)	8.4	39.2	59.5	72.9	83.7	90.6	94.9	96.3
	1907		0.9	22.8	40.6	52.5	66.5	76.7	84.6	89.5
	1906	(1)	2.5	13.3	31.7	48.7	62.9	75.3	82.5	86.2
	1905	(1)	1.2	25.0	40.5	58.0	75.6	83.8	89.4	92.4
	1904	(1)		24.8		61.1		84.7		92.9
Texas.....	1910	11.0	42.8	70.2	81.5	89.4	94.7	96.6	97.9	98.8
	1909	9.6	43.0	67.8	77.8	85.2	89.6	91.6	94.3	96.3
	1908	8.0	26.6	56.5	69.0	78.9	88.0	92.9	96.1	97.3
	1907	6.9	29.8	58.4	69.0	77.2	83.8	90.1	94.7	97.2
	1906	8.3	25.5	50.5	64.1	75.7	82.3	88.1	91.6	95.0
	1905	10.5	32.3	58.8	68.4	75.1	85.4	89.3	91.7	93.9
	1904	8.9		69.9		86.6		96.4		98.6
All other states ¹	1910	(1)	0.1	10.1	29.3	45.8	66.6	76.1	83.7	88.2
	1909	(1)	3.8	34.6	59.9	76.0	85.6	92.2	94.9	95.5
	1908	(1)	6.5	32.3	50.9	63.9	76.6	87.4	92.7	95.3
	1907		0.2	15.5	31.5	42.5	57.7	68.7	77.7	85.5
	1906		2.2	17.1	29.1	44.5	59.1	69.5	77.2	80.9
	1905		0.9	22.6	39.3	58.6	77.8	85.1	89.2	93.8
	1904			23.4		59.1		81.6		90.3

¹ Less than one-tenth of 1 per cent.² Includes Arizona, California, Kansas, Kentucky, Missouri, New Mexico, and Virginia.

The variations in percentages of the total numbers of bales ginned, to the respective report dates, as between the crops of 1910 and previous years, are noteworthy. By October 18, 1910, 46.9 per cent of the crop had been ginned, compared with 54.9 per cent at the corresponding date in 1909, 48.1 per cent in 1908, 40 per cent in 1907, 38 per cent in 1906, and 47.6 per cent in 1905.

An analysis of the statistics of periodical ginnings shown in Table 4 is presented in the following table, which shows the average number of bales of cotton ginned per working day during each of the ginning periods, together with the corresponding percentage of the crop ginned during the period for the crops of 1906 to 1910, inclusive.

TABLE 6.—AVERAGE QUANTITY OF COTTON GINNED PER WORKING DAY DURING EACH OF THE GINNING PERIODS AND THE PERCENTAGE OF THE TOTAL CROP GINNED IN EACH PERIOD: CROPS OF 1906 TO 1910.

GINNING PERIOD.	COTTON GINNED—									
	1910		1909		1908		1907		1906	
	Average ginned per working day (bales).	Per cent of crop ginned in period.	Average ginned per working day (bales).	Per cent of crop ginned in period.	Average ginned per working day (bales).	Per cent of crop ginned in period.	Average ginned per working day (bales).	Per cent of crop ginned in period.	Average ginned per working day (bales).	Per cent of crop ginned in period.
Sept. 1 to Sept. 25.....	93,289	16.9	103,805	21.6	104,210	16.7	66,616	12.0	82,487	12.7
Sept. 25 to Oct. 18.....	163,766	26.9	155,988	29.4	185,276	28.3	144,383	26.1	143,717	22.1
Oct. 18 to Nov. 1.....	160,194	16.6	123,907	14.8	157,949	14.5	142,359	15.4	164,555	15.2
Nov. 1 to Nov. 14.....	130,407	12.4	91,196	10.9	127,659	10.7	106,555	10.6	150,532	12.8
Nov. 14 to Dec. 1.....	90,619	11.7	54,621	7.6	100,918	10.8	69,515	9.4	97,708	11.3
Dec. 1 to Dec. 13.....	55,573	4.8	48,180	4.8	81,419	6.8	94,067	8.5	108,492	8.4
Dec. 13 to Jan. 1.....	22,887	3.4	16,979	2.9	35,064	4.3	41,715	6.0	39,266	4.8
Jan. 1 to Jan. 16.....	14,053	1.5	10,790	1.4	15,454	1.5	20,850	3.5	33,474	3.4

The period of the largest average daily ginnings for the last four years was between September 25 and October 18. The averages in the period are 163,766 bales for the past season, 155,938 for 1909, 185,276 for 1908, and 144,383 for 1907. Little relation appears to exist between the size of the crop and the average quantity of cotton ginned daily during any period shown in the table. For instance, the crop of 1910, exclusive of linters, is only 510,512 bales more than that of 1907; yet the largest daily average of cotton ginned for any period in 1910 amounted to 19,383 bales more than the largest daily average in 1907, although the largest daily average of ginnings in both years was in the same ginning period. The differences in the average quantities of cotton ginned per working day are attributable largely to variations in weather conditions, to the supply of labor for picking, and to the condition of the cotton market, since when prices are good the planters, being anxious to take advantage of them, move their cotton to the ginneries more rapidly than when the market is indifferent. During the past season, as in 1909, favorable weather, as well as attractive prices, materially facilitated the harvesting of the crop during the past

season. The growth of 1910 was a million and a half bales more than that of 1909, and the daily average of ginnings between September 25 and October 18, 1910, was 7,828 bales greater than in the corresponding period in 1909.

Average weight of bale.—As many ginneries do not weigh the baled cotton turned out from their establishments, and as some of those who do weigh it fail to keep permanent records, average bale weights secured from ginneries are not always reliable. In view of this condition and the necessity of securing local weights in order to reduce the statistics to a uniform bale weight so as to credit each county with its proper proportion of the crop, the bureau requires its canvassing agents to secure bale weights from local weighers, merchants, and other handlers of cotton. The statistics in Table 7 have been compiled from these data, and should constitute a very reliable record. This table shows, by states, for the crops from 1906 to 1910, the average gross weight of upland square, upland round, sea-island, and linter bales, and the number of square bales for which weights were returned to the bureau, with their total weight in pounds.

TABLE 7.—AVERAGE GROSS WEIGHT OF THE SEVERAL KINDS OF BALES AND NUMBER AND GROSS WEIGHT OF SQUARE BALES FOR WHICH WEIGHTS WERE RETURNED, BY STATES: 1906 TO 1910.

STATE.	Growth year.	AVERAGE GROSS WEIGHT OF BALE (POUNDS).				SQUARE BALES FOR WHICH WEIGHTS WERE RETURNED.		
		Counting round as half bales and including linters.	Upland.		Sea-Island.	Linters.	Number.	Gross weight (pounds).
			Square.	Round.				
United States.....	1910	501.7	502.0	249.4	398.8	499.8	6,191,522	3,106,196,000
	1909	496.6	497.7	240.6	384.4	494.6	5,379,824	2,075,320,061
	1908	505.8	506.0	248.0	389.3	498.9	5,908,174	2,988,421,183
	1907	502.2	503.2	246.1	391.6	500.2	4,606,253	2,314,074,388
	1906	510.9	512.0	245.1	387.2	499.4	4,701,718	2,398,101,573
Alabama.....	1910	500.8	500.9	243.0	.....	499.8	651,927	326,767,378
	1909	492.7	492.5	241.4	.....	503.3	527,685	259,230,455
	1908	505.0	505.1	258.9	.....	499.9	655,929	351,095,793
	1907	499.9	499.9	247.9	.....	501.8	437,181	217,991,340
	1906	508.2	508.3	249.7	.....	507.9	468,305	237,913,656
Arkansas.....	1910	514.3	514.4	259.9	.....	510.9	448,920	229,111,985
	1909	511.1	511.4	256.1	.....	502.6	451,368	230,477,880
	1908	518.3	518.5	258.4	.....	511.3	551,117	285,090,936
	1907	515.1	515.2	250.2	.....	509.0	360,092	185,295,978
	1906	520.0	520.8	254.5	.....	517.8	337,684	177,570,776
Florida.....	1910	488.7	482.0	.....	382.6	435.0	32,114	15,645,860
	1909	430.5	439.7	.....	372.0	441.8	17,554	8,404,545
	1908	439.5	495.1	.....	382.7	426.8	13,019	6,351,807
	1907	439.2	488.8	.....	387.2	428.8	13,764	6,719,854
	1906	454.7	499.0	.....	380.4	438.3	15,757	7,880,049
Georgia.....	1910	487.3	489.7	.....	409.3	479.1	1,015,455	497,987,815
	1909	487.2	490.1	.....	400.2	475.0	942,034	469,364,220
	1908	488.4	490.3	258.5	406.7	480.2	930,861	456,847,654
	1907	488.0	490.1	258.5	405.1	484.0	767,944	378,498,027
	1906	487.5	489.1	250.0	400.5	480.0	754,383	370,901,879
Louisiana.....	1910	498.7	497.8	243.3	.....	526.0	183,599	91,600,361
	1909	490.9	490.1	240.6	.....	506.7	233,103	115,176,185
	1908	504.5	504.4	240.8	.....	525.1	230,149	116,050,624
	1907	510.5	510.7	244.9	.....	524.8	190,745	99,224,221
	1906	517.0	517.4	247.8	.....	521.0	272,904	139,649,833
Mississippi.....	1910	520.8	520.9	.....	.....	519.8	593,732	307,431,322
	1909	505.0	504.7	.....	.....	513.2	502,017	253,034,840
	1908	510.9	511.0	250.7	.....	509.1	678,117	344,656,106
	1907	508.7	508.8	250.7	.....	504.4	600,485	304,391,636
	1906	515.8	516.0	244.8	.....	509.2	539,173	279,110,432
North Carolina.....	1910	499.1	498.8	.....	.....	477.9	352,844	166,081,598
	1909	478.6	473.0	.....	.....	463.2	332,169	157,216,110
	1908	472.8	473.2	.....	.....	457.2	290,314	140,619,899
	1907	474.5	474.4	.....	.....	479.0	291,860	138,965,772
	1906	474.3	473.9	.....	.....	489.5	242,453	116,541,057
Oklahoma.....	1910	501.6	501.9	246.8	.....	497.0	522,686	262,597,301
	1909	493.2	498.4	238.0	.....	499.3	375,080	185,547,472
	1908	501.1	501.7	240.5	.....	500.2	345,391	172,906,423
	1907	507.5	508.7	238.8	.....	484.3	353,982	179,288,414
	1906	514.2	515.8	235.6	.....	486.9	244,772	120,345,119
South Carolina.....	1910	480.4	481.7	.....	358.8	480.7	710,164	341,724,230
	1909	483.6	485.3	.....	350.7	484.4	660,954	319,100,925
	1908	481.2	483.0	.....	351.8	470.0	674,530	325,415,350
	1907	481.3	482.4	.....	355.8	498.2	515,638	247,481,188
	1906	480.4	481.2	.....	347.5	495.4	396,939	190,822,348
Tennessee.....	1910	517.6	516.9	.....	.....	531.4	170,407	88,747,883
	1909	512.5	512.2	.....	.....	517.8	147,125	76,640,064
	1908	514.9	515.6	258.3	.....	497.8	160,853	82,993,148
	1907	516.0	516.6	258.8	.....	518.0	99,947	51,646,990
	1906	522.1	522.0	.....	.....	526.0	83,212	43,896,763
Texas.....	1910	518.2	517.9	251.4	.....	500.5	1,451,812	749,677,286
	1909	510.3	511.1	249.2	.....	499.1	1,139,320	582,331,642
	1908	525.3	526.3	250.1	.....	506.6	1,356,574	713,304,355
	1907	520.5	521.8	248.3	.....	508.1	947,043	493,788,031
	1906	526.5	528.0	245.4	.....	494.3	1,318,091	693,922,535
All other states ¹	1910	500.5	498.8	250.0	.....	527.6	57,853	28,832,375
	1909	501.2	500.0	.....	.....	514.8	51,415	25,797,423
	1908	522.2	523.3	250.0	.....	509.7	15,514	8,083,948
	1907	521.8	522.8	.....	.....	501.5	21,025	10,978,680
	1906	515.9	516.2	.....	.....	510.4	28,045	14,572,689

¹Includes Arizona, California, Kansas, Kentucky, Missouri, New Mexico, and Virginia, and the linter production of Illinois.

The number of square bales for which weights were returned to the bureau this season is 6,191,522, or more than one-half of the number of bales ginned during the season. These weights were returned from 837 of the 858 counties in which cotton was ginned. The counties from which bale weights were not secured ginned an insignificant proportion of the crop. The bale weights were returned in two installments, with the reports of cotton ginned to November 14 and to

January 1. Since weights are secured for bales ginned for different periods, they are representative of the varying conditions of the season and contribute to the reliability of the averages. Because of the variation throughout the season in the weights of the bales pressed, it is not possible to arrive at a reliable average for the crop before the season's ginning is practically completed. Weights of sea-island and of upland round bales were secured from the handlers of such

cotton, and from these data were computed the average weights for round and sea-island bales. The average weight of the linter bale has been computed from returns secured from operators of cottonseed-oil mills.

Method of computing average bale weights.—To calculate the average bale weights for a state, the average weights in pounds of the square, the round, and the sea-island bales weighed in each county were multiplied separately by the number of bales of the respective kinds reported as ginned in the county. The several products thus obtained constitute the totals for the county. The county totals for the different kinds of bales were added separately to obtain the corresponding state totals, which were then divided respectively by the number of bales of the several kinds ginned in the state to obtain the average weight of each kind of bale. By deducting from the sum of the different kinds of bales one-half of the number of round bales, the divisor for finding the average weight of all kinds of bales combined, counting round as half bales, was obtained. The average bale weight for the crop of 1910 thus computed, counting round as half bales and including linters, is 501.7 pounds gross, which, compared with the average 496.6 pounds for 1909, is a gain of 5.1 pounds.

Disparity between census and export bale weights.—The average weight of the bales exported during the

six months ending February 28, 1911, was 515.8 pounds, which is 14.1 pounds heavier than the average bale weight for the crop of 1910, as computed from the returns of bale weights received by the bureau. This variation may be due to a number of causes. The census figures relate to the entire crop, but those of exports to a six-month period, and since the weight of the bale grows lighter toward the close of the season the average weight of the export bale shown is likely to be heavier than the average weight for the entire crop. Another cause is that the states which contribute the larger portion of the export cotton are those which put up the heaviest bales; for example, the average weight of the bales exported from Galveston during the six-month period ending with February was 527.8 pounds, while the average for those exported from Savannah was 503.1 pounds. The average weight of the bale for the crop of Arkansas, Louisiana, Mississippi, Tennessee, Texas, and Oklahoma, which furnished about two-thirds of the export cotton, was 510.3 pounds, while that for the crop of Alabama, Georgia, North Carolina, and South Carolina, which contributed most largely to the domestic consumption, was 485.6 pounds.

Production in pounds.—The statistics for the gross weight of the cotton crops of 1906 to 1910, expressed in equivalent pounds and including linters, are shown, by states, in Table 8.

TABLE 8.—GROSS WEIGHT OF COTTON PRODUCED, INCLUDING LINTERS, BY STATES: 1906 TO 1910.

STATE.	Growth year.	GROSS WEIGHT OF COTTON PRODUCED (POUNDS).					Linters.
		Aggregate.	Lint cotton.				
			Total.	In square bales.	In round bales.			In sea-island bales.
United States.....	1910	6,002,840,000	5,804,310,000	5,740,610,000	28,160,000	35,540,000	198,530,000
	1909	5,157,690,000	5,002,470,000	4,928,880,000	37,150,000	36,440,000	155,220,000
	1908	6,793,650,000	6,620,900,000	6,524,130,000	60,230,000	36,540,000	172,750,000
	1907	5,687,730,000	5,553,590,000	5,470,690,000	43,870,000	34,030,000	134,140,000
	1906	6,797,750,000	6,636,900,000	6,548,820,000	65,740,000	22,280,000	160,850,000
Alabama.....	1910	611,650,000	597,130,000	594,340,000	2,790,000	.....	14,520,000
	1909	524,890,000	512,170,000	507,480,000	4,740,000	.....	12,720,000
	1908	687,070,000	672,860,000	668,070,000	4,790,000	.....	14,210,000
	1907	566,480,000	556,350,000	551,920,000	4,430,000	.....	10,130,000
	1906	642,210,000	630,760,000	624,660,000	6,110,000	.....	11,450,000
Arkansas.....	1910	423,930,000	410,610,000	409,600,000	1,010,000	.....	13,320,000
	1909	367,040,000	356,730,000	355,120,000	1,610,000	.....	10,310,000
	1908	529,040,000	516,460,000	512,840,000	3,620,000	.....	12,580,000
	1907	396,710,000	387,390,000	385,670,000	1,690,000	.....	9,350,000
	1906	481,900,000	470,590,000	468,150,000	2,440,000	.....	11,310,000
Florida.....	1910	30,020,000	29,470,000	18,220,000	.....	11,250,000	550,000
	1909	27,470,000	27,000,000	16,510,000	.....	10,490,000	470,000
	1908	31,610,000	31,050,000	17,740,000	.....	13,310,000	560,000
	1907	25,360,000	24,800,000	13,690,000	.....	11,210,000	460,000
	1906	28,570,000	27,970,000	18,700,000	.....	9,270,000	600,000
Georgia.....	1910	910,310,000	883,600,000	863,980,000	.....	19,620,000	28,710,000
	1909	926,640,000	902,010,000	881,170,000	.....	20,840,000	24,630,000
	1908	990,040,000	965,590,000	947,400,000	70,000	18,120,000	24,450,000
	1907	927,890,000	907,910,000	889,070,000	780,000	18,110,000	19,930,000
	1906	813,100,000	796,290,000	784,790,000	1,290,000	10,210,000	16,870,000
Louisiana.....	1910	127,870,000	122,830,000	121,950,000	880,000	.....	5,040,000
	1909	132,340,000	128,710,000	124,530,000	2,180,000	.....	5,050,000
	1908	243,170,000	235,070,000	229,540,000	5,530,000	.....	8,100,000
	1907	347,030,000	337,710,000	328,240,000	9,470,000	.....	9,320,000
	1906	506,290,000	496,890,000	482,950,000	10,940,000	.....	12,400,000
Mississippi.....	1910	653,330,000	631,340,000	631,340,000	.....	.....	21,990,000
	1909	560,340,000	541,610,000	541,610,000	.....	.....	15,730,000
	1908	852,490,000	827,970,000	827,920,000	50,000	.....	24,520,000
	1907	752,150,000	734,090,000	732,440,000	1,650,000	.....	18,060,000
	1906	784,770,000	765,370,000	764,860,000	510,000	.....	19,400,000
North Carolina.....	1910	363,420,000	353,070,000	353,070,000	.....	.....	10,350,000
	1909	307,780,000	300,300,000	300,300,000	.....	.....	7,480,000
	1908	331,580,000	323,480,000	323,480,000	.....	.....	8,100,000
	1907	309,830,000	302,660,000	302,660,000	.....	.....	7,170,000
	1906	297,190,000	289,660,000	289,660,000	.....	.....	7,530,000
Oklahoma.....	1910	479,480,000	461,530,000	454,530,000	7,000,000	.....	17,950,000
	1909	283,030,000	272,480,000	265,830,000	6,650,000	.....	10,550,000
	1908	363,410,000	346,380,000	334,030,000	11,350,000	.....	8,030,000
	1907	441,490,000	431,190,000	420,800,000	10,390,000	.....	10,800,000
	1906	459,190,000	448,910,000	439,620,000	9,290,000	.....	10,280,000
South Carolina.....	1910	595,960,000	581,750,000	577,080,000	.....	4,670,000	14,210,000
	1909	563,020,000	549,980,000	544,870,000	.....	5,110,000	13,040,000
	1908	597,620,000	585,300,000	580,100,000	.....	5,110,000	12,320,000
	1907	571,120,000	559,610,000	554,900,000	.....	4,710,000	11,510,000
	1906	447,560,000	438,090,000	435,290,000	.....	2,800,000	9,470,000
Tennessee.....	1910	174,740,000	165,980,000	165,980,000	.....	.....	8,760,000
	1909	129,860,000	123,820,000	123,320,000	.....	.....	6,540,000
	1908	179,930,000	172,240,000	172,140,000	100,000	.....	7,690,000
	1907	143,160,000	137,620,000	137,450,000	170,000	.....	5,530,000
	1906	168,820,000	155,620,000	152,960,000	.....	.....	5,800,000
Texas.....	1910	1,586,250,000	1,524,710,000	1,508,300,000	16,410,000	.....	61,540,000
	1909	1,303,760,000	1,261,400,000	1,239,430,000	21,970,000	.....	42,350,000
	1908	1,956,540,000	1,907,240,000	1,872,750,000	34,490,000	.....	49,300,000
	1907	1,180,240,000	1,150,090,000	1,129,600,000	20,400,000	.....	30,150,000
	1906	2,140,910,000	2,087,100,000	2,051,940,000	35,160,000	.....	63,810,000
All other states ¹	1910	45,880,000	42,290,000	42,220,000	70,000	.....	3,590,000
	1909	31,530,000	28,790,000	28,760,000	.....	.....	2,770,000
	1908	41,150,000	38,290,000	38,030,000	230,000	.....	2,890,000
	1907	26,280,000	24,100,000	24,100,000	.....	.....	2,180,000
	1906	37,180,000	35,250,000	35,250,000	.....	.....	1,930,000

¹ Includes for Tennessee 60,000 pounds not baled in 1906.² Includes Arizona, California, Kansas, Kentucky, Missouri, New Mexico, and Virginia, and the linter production of Illinois.

The statistics in the table represent the weight of baled cotton just as it is bought and sold. The wrapping and bands of the bales are estimated to average 22 pounds for square bales, 3 for round, and 10 for sea-island. The total tare, computed with these figures as a basis, for the crop of 1910 amounted to 261,260,000 pounds, which leaves the net quantity of

cotton produced as 5,741,580,000 pounds, of which 5,551,790,000 pounds represent lint and 189,790,000 pounds linters.

The proportion of the cotton crop of 1910 put up in round bales is five-tenths of 1 per cent, compared with 4.6 per cent in 1902. For the crop of 1902 round-bale presses were operated in 12 states, while for that

of 1910 they were operated in only 6 states, namely, Alabama, Arkansas, Louisiana, Missouri, Oklahoma, and Texas.

Sea-island cotton.—Table 9 is a comparative statement, by states, showing the quantity of sea-island

cotton ginned in the United States from the crops grown each year from 1906 to 1910, the average gross weight of the bale, and the quantities ginned to specified dates during these years.

TABLE 9.—SEA-ISLAND COTTON—PRODUCTION, AVERAGE GROSS WEIGHT OF BALE, AND QUANTITY GINNED TO SPECIFIED DATES, BY STATES: 1906 TO 1910.

STATE.	Growth year.	PRODUCTION.		Average gross weight of bale (pounds).	COTTON GINNED TO (RUNNING BALES)—								
		Bales (number).	Total gross weight (pounds).		Sept. 1.	Sept. 25.	Oct. 18.	Nov. 1.	Nov. 14.	Dec. 1.	Dec. 13.	Jan. 1.	Jan. 16.
United States.....	1910	90,368	35,540,000	393.3	218	7,004	25,691	40,504	52,631	66,690	75,228	82,432	86,424
	1909	94,791	36,440,000	384.4	1,230	13,832	30,482	55,237	68,495	77,691	85,177	89,611	92,101
	1908	93,858	36,540,000	389.3	1,221	11,457	32,013	45,479	56,701	68,395	80,316	86,528	90,287
	1907	89,895	34,030,000	391.6	85	4,259	18,775	33,331	44,698	55,299	65,268	73,425	80,190
	1906	57,550	22,280,000	387.2	63	2,689	12,091	21,706	30,671	41,250	49,361	54,275	56,326
Florida.....	1910	29,417	11,250,000	382.6	120	2,988	10,098	15,191	19,669	23,663	25,854	27,646	28,790
	1909	28,158	10,490,000	372.6	631	6,133	14,534	19,740	23,453	25,905	26,870	27,532	27,888
	1908	34,775	13,310,000	382.7	481	5,083	13,810	19,064	23,620	27,007	31,072	32,098	34,017
	1907	28,935	11,210,000	387.2	37	1,644	6,604	12,153	16,457	19,799	22,490	25,088	27,424
	1906	23,995	9,270,000	386.4	47	1,284	6,121	10,858	15,110	18,880	21,534	23,144	23,670
Georgia.....	1910	47,935	19,620,000	409.3	95	3,093	14,386	22,490	28,088	35,405	39,725	43,636	45,441
	1909	52,060	20,840,000	400.2	604	7,649	19,931	31,277	38,825	45,164	47,564	49,944	51,072
	1908	44,549	18,120,000	406.7	740	5,924	15,233	21,802	29,833	32,140	37,952	41,049	43,256
	1907	44,713	18,110,000	405.1	48	2,537	10,471	17,576	22,650	27,748	33,117	37,052	40,436
	1906	25,484	10,210,000	400.5	16	1,359	5,295	9,363	12,550	17,197	21,171	23,603	24,765
South Carolina.....	1910	13,016	4,670,000	358.8	3	23	1,207	2,823	4,874	7,628	9,619	11,160	12,193
	1909	14,573	5,110,000	350.7	1	50	4,220	6,217	8,522	10,743	12,135	13,231	
	1908	14,534	5,110,000	351.8	-----	450	2,970	4,613	6,248	8,349	11,292	12,781	13,014
	1907	13,247	4,710,000	355.8	-----	78	1,709	3,602	5,581	7,762	9,661	11,285	12,390
	1906	8,071	2,800,000	347.5	-----	46	675	1,485	3,011	5,167	6,656	7,528	7,891

The cultivation of sea-island cotton in the United States at the present time, as shown by the returns of ginneries, is confined to 43 counties, distributed as follows: Fourteen in Florida, 25 in Georgia, and 4 in South Carolina, but it is not grown in all parts of the counties from which it is returned. Attempts made in many other parts of these and other states to grow this cotton have produced such unsatisfactory results that all efforts to grow it outside of certain well-defined areas in the states named have been abandoned. The distribution of the crop by counties for the last five years will be found in Table 16, and the localities producing it are represented on the map on page 26.

The finest sea-island cotton is grown on the islands off the coast of South Carolina by planters who have for many years paid the most careful attention to seed selection. The fiber produced is long and fine, and is harvested and handled with such care that the grower's private brand is frequently accepted by the buyers as a guaranty of the quality. These fine "crop lots," all of the finest of which are exported, comprise about one-third of the sea-island cotton marketed at Charleston, and sell for from 30 to 75 cents per pound. Growers who raise sea-island cotton in the interior must secure new seed frequently from the coast region in order to preserve the identity of the fiber, which degenerates rapidly into upland fiber when grown away from the coast. Aside from the difficulties presented by soil and climatic conditions, there are other obstacles in the way of extending this culture beyond present well-defined limits. Among these are: (1) Lack of proper experience in cultivating, harvesting,

and handling in new territory; (2) objection to the small and partially closed sea-island bolls on the part of the pickers accustomed to the upland varieties, notwithstanding the fact that they receive \$1.25 per hundred pounds for picking sea-island cotton and only 50 to 75 cents per hundred pounds for picking upland cotton; (3) the necessity of using the roller gin for sea-island cotton, since saws injure the staple; (4) the disadvantage of selling sea-island cotton in a market where the buyers are unaccustomed to it.

The South Carolina crop is marketed principally at Charleston, and that of Georgia and Florida at Savannah, Blackshear, and Valdosta, Ga. There is a marked difference in the style of the sea-island cotton bale in different localities. The South Carolina package is a bag 7½ feet long and 2½ feet in diameter, weighing on the average about 350 pounds. The cotton is pressed into these bags by hand or by a hand-screw press, and is not further compressed for export. Interior sea-island cotton is usually packed by steam presses into square bales, weighing about 400 pounds each, and covered with heavy burlap, which is secured by sewing with strong cord instead of by the steel ties used for upland bales. The buyers classify interior sea-island cotton by length of fiber, without regard to the exact locality of its growth, into *East Floridas*, ranging from 1¾ to 2 inches; *Floridas*, 1½ to 1¾ inches; and *Georgias*, 1½ inches, but not so fine as *Floridas*. Each of these classifications is subdivided with reference to appearance into *fancy*, *extra choice*, *extra fine*, *fine*, and *dogs*. Generally speaking, the length of the fiber is influenced most by seed selection, but the character of

the soil and the atmospheric conditions under which it is grown also affect it. A difference of 5 to 10 cents per pound between the grades *fancy* and *fine* shows the possible profit to the farmer who gives most careful attention to cultivation and preparation.

The value of the better grades of sea-island cotton is only slightly affected by the fluctuations in the size of the crop or the price of the short-staple upland variety, but the amount and quality of the long-staple upland cotton in the market seriously affect the price of the lower grades of sea-island.

The average quantity of sea-island cotton produced each year is equivalent to about 70,000 bales, of 500 pounds each. Of this amount, an average of 25,000 bales is exported and 45,000 bales are consumed in this country.

The sea-island cotton now being grown in the West Indies is said to equal the average American product, and competes with that grown in South Carolina rather than with the inferior kinds grown in Florida and Georgia. The West Indian industry is new, having been developed largely since 1902, and is as yet of small proportions, the area devoted to its culture being estimated at 15,000 acres.

Egyptian cotton, the demand for which is increasing in this country, is to some extent a competitor of sea-island, and about 150,000 bales, valued at more than \$14,000,000, are being imported annually. While its fiber is not so long and fine as that of sea-island, it is very strong, and, being prepared more carefully for the market, it is freer from waste than the American fiber and more desirable for the manufacturer. There are four principal reasons for the extensive use of Egyptian cotton in this country: (1) It is best adapted to mercerizing and other processes that give a high finish to cloth and cause it to resemble silk; (2) its exceptional clearness, as well as its capacity for taking dyes, fits it for mixing with silk and for filling sateen, India linens, and similar goods having a brilliant surface; (3) the brown color of the Mit Affi grade of this fiber allows it to be used without dyeing in manufacturing such goods as Balbriggan underwear and lace curtains in which the ecru shade is desired; (4) it can be used for the manufacture of sewing thread and other articles which need to be very strong and for which no other type of cotton but sea-island can be used.

Experiments in growing Egyptian cotton.—The constantly increasing demand in this country for Egyptian cotton has led the Department of Agriculture to make experiments in the growing of this variety in the United States. Since this type of cotton will continue to produce and ripen until a hard frost occurs, the greatest yield can be obtained in regions where the autumn temperatures are highest. For this reason the experiments of the department have been carried on by means of irrigation in the hot, dry

portions of southern Arizona and southeastern California, where the climate corresponds most closely to that of Egypt.

The methods of breeding have been simple. At first the best seeds obtainable in Egypt were used. Each year the seeds of the plants showing the best characteristics of growth and production were preserved for planting the next season. Two distinct varieties and several superior strains have been developed by the experiments of the past seven years. The varieties Yuma and Somerton, named from the localities in which grown, have been developed from imported seed of the Mit Affi, and are as distinct in character of plant, boll, and fiber as the varieties of Abbasi and Jannovitch, which developed in Egypt from the same source. The Yuma variety has a vigorous growth, its bolls are long and tapering, the fiber is silky and cream-colored, averaging $1\frac{1}{2}$ inches in length, and the production of lint is large. The plant of the Somerton variety is more bushy than that of the Yuma, its bolls are sharply pointed, have smoother seeds, and yield less lint. Samples of the fiber produced have been submitted to the examination of spinners and other experts, who pronounce it equal to kindred varieties imported.

Long-staple upland cotton.—In recent years the demand for superior cotton staples has increased steadily, and in response better varieties of upland cotton are being produced in our cotton-growing states. Extra staple cotton can be grown in many localities, and through hybridization, seed selection, and better methods of cultivation is being produced in greater quantities. Most of the long-staple upland cotton is grown in the Mississippi Valley between Memphis, Tenn., and Vicksburg, Miss., in a strip of country about 75 miles wide and 200 miles long. Some of the cotton produced here grades almost as high as sea-island. The fiber measures from $1\frac{1}{4}$ to $1\frac{3}{4}$ inches in length, the yield per acre is about three times as great as sea-island, and its cost of production is less. Roller gins should be used in ginning this cotton, so that the fiber will be uniform and uninjured, but at present saw gins are used, often cutting and damaging it materially.

During the year 1910 experiments made in growing a better staple of cotton in South Carolina met with such success that in 1911 an organized effort will be made to increase its cultivation. These experiments demonstrated that, where first-class seed of long-staple cotton had been used, the production per acre equaled or exceeded that of the short-staple, and was of such quality that it could be utilized by the mills in the state in competition with that brought from the Mississippi Valley.

The bureau has made diligent efforts this season to collect, through its local agents and by correspondence, reliable statistics of the quantity of upland long-staple cotton produced during 1910, classing as such, cotton

which ranges $1\frac{1}{2}$ inches and above. While reports have been received from numerous localities, indicating an interest in the production of this cotton, growers have not, as a rule, kept such records as enable them to supply the bureau with the accurate data desired. However, the result of the inquiry would appear to justify the estimate that the production of this cotton throughout the entire cotton belt amounted to about 300,000 bales, the states in the order of their position as producers of this fiber being Mississippi, Texas, Arkansas, and South Carolina, with smaller quantities reported from all of the remaining cotton-growing states.

Average grade and average value per pound of cotton.—The estimated average grade of upland cotton, the average prices of upland and of sea-island cotton, the average price of Egyptian cotton at Boston, and the average price of seed of the crops from 1902 to 1910 are presented in the following table:

TABLE 10.—*Estimated average grade of upland cotton, average prices of upland, sea-island, and Egyptian cotton, and average price of cotton seed: 1902 to 1910.*

The Census Bureau is indebted to Mr. Henry G. Hester, secretary of the New Orleans Cotton Exchange, for the grades and prices of upland cotton; to Messrs. Henry W. Frost & Co., of Charleston, S. C., for prices of sea-island cotton; and to Harman Capelle Co., of New York, for prices of Egyptian cotton. Prices of cotton seed have been determined from information furnished by cottonseed-oil companies.]

GROWTH YEAR.	Estimated average grade of upland cotton.	AVERAGE PRICE OF COTTON FIBER PER POUND (CENTS).					Price of cotton seed per ton manufactured.
		Upland.	Sea-island.			Egyptian.	
			Florida.	Georgia.	South Carolina.		
1910.....	Strict middling.....	14.69	27.36	27.36	35.62	22.25	\$27.40
1909.....	Strict middling.....	14.29	27.10	27.10	32.85	20.50	27.70
1908.....	Strict middling.....	9.24	17.92	17.92	23.39	17.25	15.60
1907.....	Middling.....	11.46	24.27	24.27	35.59	21.00	17.60
1906.....	Strict low middling.....	10.01	23.65	23.65	36.70	20.00	13.80
1905.....	Fully middling.....	10.94	17.50	17.50	26.38	19.00	14.90
1904.....	Strict middling.....	8.66	19.50	19.00	27.12	15.00	14.20
1903.....	Strict middling.....	12.16	23.00	21.00	28.40	17.75	17.80
1902.....	Strict low middling.....	8.20	20.00	17.00	25.00	15.50	15.80

This table shows the average grade of the cotton crop marketed prior to April 1 of each year and the average price at which this grade was sold. The average price of upland cotton for the past nine years has ranged from 8.20 cents in 1902 to 14.69 cents in 1910. The average price is used in estimating the total value of the crop. Sea-island cotton grown in South Carolina sold in 1910 at an average price of 35.62 cents per pound, while the average for 1909 is 32.85; that grown in Georgia and Florida averaged 27.36 cents this year and 27.10 in 1909. The grades known as *Georgias* and *Floridas* sold on the same terms. The average price of Egyptian cotton for 1910 was 22.25 cents per pound, and relates to cotton imported into the United States prior to April 1, 1911.

The average value of cotton seed for the crop of 1910 is \$27.40 per ton, compared with \$27.70 for 1909, \$15.60 for 1908, and \$17.60 for 1907.

National cotton standards.—The true value of lint cotton is determined from its appearance and the length and strength of the fiber. All these features are carefully considered in the final analysis made by the manufacturer, but in the local market where the average grower disposes of his products the present methods of grading are crude and unscientific. The following interesting article on the subject was prepared by the Department of Agriculture:

The desirability of establishing a uniform basis for cotton grading has long been recognized by a great majority of those interested in the cotton industry, and in the act making appropriations for the Department of Agriculture for the year ending June 30, 1909, the Secretary of Agriculture was authorized and directed to establish official standards for cotton. The provision of the law referred to is as follows:

To enable the Secretary of Agriculture to establish a standard for the different grades of cotton, calling to his assistance for that purpose expert cotton classifiers, by fixing a standard of middling cotton, and using the same as a basis, establishing a standard of nine different grades to be designated Middling Fair, Strict Good Middling, Good Middling, Strict Middling, Middling, Strict Low Middling, Low Middling, Strict Good Ordinary, and Good Ordinary, which shall be the official standard of cotton classifications. And the Secretary of Agriculture is authorized and directed to prepare in practical form the standard of said grades and furnish the same upon request to any person, the cost thereof to be paid when delivered by the person requesting the same, and certified under the signature of the said Secretary, and the seal of his department.

A committee representing every branch of the cotton industry was convened in Washington to fix upon and prepare samples of nine official grades of white American cotton, as required by law. Standards and types of grades actually in use had been previously secured from numerous cotton exchanges and markets in this country and in Europe, and every assistance was given the committee and its expert classifiers in the performance of their work. This committee submitted a unanimous report to the Secretary, fixing the grades and recommending that they be not promulgated prior to September 1, 1910.

Before this date, however, in order that those most interested in the cotton trade might become fully acquainted with the official grades, the department placed a number of the sets of samples with members of the committee, organizations, cotton exchanges, and the agricultural colleges of the cotton states. Each of the samples consists of nine boxes—one box for each grade. In each box there are 12 samples, packed separately, which show the range of diversity within the grade, and in the cover of each box there is attached a full-size photograph of its contents, showing the appearance of the cotton when certified by the Secretary. The official character of the grades is attested by the signature of the Secretary and the official seal of the Department of Agriculture. As each particle of trash and the general lay of the fiber is shown in the photograph, any material change in the appearance of the samples can be readily detected.

In order that the uniformity of the official grades may be maintained, preparations are being made for storing in vacuum tubes 25 sets of standard samples, to be opened as needed in future years. Vacuum storage represents a new departure in preserving cotton standards, and experiments made by the department indicate that cotton in vacuum tubes stored in vaults will be successfully protected from change in grade on account of light, moisture, and atmospheric or other influences.

PRESENT STATUS OF OFFICIAL GRADES.

In accordance with the recommendation of the committee, the general sale of the sample sets of official grades was begun about September 1, 1910. By March 15, 1911, they had been secured by individuals or organizations in 21 of the United States and in

England, Germany, and Mexico. The price is \$35 per set, and the department is without authority to dispose of them otherwise than by sale.

These grades have been formally adopted as the basis of transactions by the cotton exchanges at the following places: New Orleans, La.; Memphis, Tenn.; St. Louis, Mo.; Charleston, S. C.; Natchez, Miss.; Little Rock, Ark.; Galveston, Tex.; Macon, Ga.; and Mobile, Ala. There is good reason to believe that other exchanges will adopt these standards. Manufacturers have shown as much interest in the official grades as the producers or dealers. One-half of the sets sold have been purchased by the cotton mills, and the most important cotton manufacturers' associations have officially indorsed the cotton standardization work of the department and recommended the grades to their members and to the exchanges. Educational institutions interested in the cotton industry have been unanimous in their approval of these types, and the only criticism made by any important branch of the industry is that these grades do not make sufficient provision for the official recognition of very low-grade cotton and of colored cotton. It is believed that the

general distribution of these samples to agricultural colleges and textile schools is resulting in more extensive dissemination of a knowledge of cotton grading, and that an important step has been taken toward enabling cotton producers to secure information which will assist them in determining the true value of cotton.

With a view to further improving the methods of cotton grading, the department is conducting experiments in determining the length and strength of cotton staple and the effects of various methods of ginning upon these qualities. A method has been devised by which the average length of staple in any sample can be accurately determined. The application of the principles of cotton grading to the cotton before it is baled is also under investigation and, it is hoped, will result in more careful ginning and handling of the cotton crop.

Value of the cotton crop.—The estimated value of upland and of sea-island cotton and of cotton seed, together with the estimated net weight of each for the crops of 1903 to 1910, are presented in Table 11.

TABLE 11.—NET WEIGHT AND ESTIMATED VALUE OF UPLAND AND OF SEA-ISLAND COTTON AND THE ESTIMATED QUANTITY AND VALUE OF COTTON SEED, BY STATES: 1903 TO 1910.

STATE.	Growth year.	Aggregate value of cotton crop.	COTTON.				COTTON SEED.		
			Total value.	Upland.		Sea-island.		Quantity (tons).	Value.
				Quantity (pounds).	Value.	Quantity (pounds).	Value.		
United States.....	1910	\$963,180,000	\$820,320,000	5,517,150,000	\$810,470,000	34,640,000	\$9,850,000	5,175,000	\$142,800,000
	1909	812,000,000	688,850,000	4,747,730,000	678,450,000	35,490,000	9,900,000	4,462,000	123,740,000
	1908	681,230,000	588,810,000	6,300,470,000	582,160,000	36,600,000	6,650,000	5,904,000	92,420,000
	1907	700,960,000	618,630,000	5,279,790,000	605,000,000	33,100,000	8,570,000	4,952,000	87,330,000
	1906	721,650,000	640,310,000	6,332,400,000	633,870,000	21,710,000	6,440,000	5,913,000	81,340,000
	1905	632,300,000	556,830,000	5,016,630,000	543,820,000	43,570,000	8,010,000	5,060,000	75,470,000
	1904	652,030,000	601,100,000	6,336,500,000	553,080,000	40,140,000	8,020,000	6,427,000	90,930,000
	1903	660,550,000	576,800,000	4,638,320,000	570,160,000	27,780,000	6,340,000	4,716,000	84,050,000
Alabama.....	1910	98,930,000	83,880,000	570,990,000	83,880,000	.....	.....	530,000	15,050,000
	1909	83,040,000	69,940,000	489,450,000	69,940,000	.....	.....	454,000	13,100,000
	1908	69,070,000	59,480,000	643,700,000	59,480,000	.....	.....	593,000	9,500,000
	1907	69,790,000	60,970,000	532,010,000	60,970,000	.....	.....	494,000	8,820,000
	1906	68,130,000	60,420,000	632,650,000	60,420,000	.....	.....	561,000	7,710,000
	1905	73,500,000	64,820,000	592,500,000	64,820,000	.....	.....	593,000	8,030,000
	1904	68,780,000	59,950,000	632,320,000	59,950,000	.....	.....	632,000	8,330,000
	1903	64,900,000	57,390,000	471,980,000	57,390,000	.....	.....	472,000	7,510,000
Arkansas.....	1910	67,060,000	57,750,000	393,090,000	57,750,000	.....	.....	365,000	9,310,000
	1909	57,750,000	48,790,000	341,430,000	48,790,000	.....	.....	317,000	8,960,000
	1908	52,140,000	45,710,000	494,660,000	45,710,000	.....	.....	459,000	6,430,000
	1907	47,890,000	42,500,000	370,870,000	42,500,000	.....	.....	344,000	5,390,000
	1906	50,690,000	45,140,000	450,990,000	45,140,000	.....	.....	419,000	5,550,000
	1905	36,870,000	32,430,000	296,390,000	32,430,000	.....	.....	296,000	4,440,000
	1904	45,180,000	33,580,000	445,520,000	33,580,000	.....	.....	446,000	6,600,000
	1903	40,300,000	42,800,000	351,970,000	42,800,000	.....	.....	352,000	6,500,000
California ¹	1910	490,000	420,000	2,860,000	420,000	.....	.....	3,000	70,000
Florida.....	1910	6,470,000	5,550,000	17,390,000	2,550,000	10,900,000	3,000,000	33,000	920,000
	1909	5,760,000	5,020,000	15,770,000	2,250,000	10,210,000	2,770,000	30,000	740,000
	1908	4,450,000	3,880,000	16,950,000	1,570,000	12,060,000	2,320,000	35,000	560,000
	1907	4,600,000	4,160,000	13,080,000	1,500,000	10,910,000	2,650,000	29,000	510,000
	1906	4,330,000	4,380,000	17,880,000	1,790,000	9,030,000	2,590,000	30,000	450,000
	1905	5,190,000	4,660,000	17,480,000	1,910,000	15,680,000	2,750,000	23,000	530,000
	1904	5,440,000	4,050,000	22,940,000	1,990,000	15,100,000	2,960,000	35,000	490,000
	1903	4,650,000	4,240,000	14,880,000	1,810,000	10,360,000	2,430,000	25,000	410,000
Georgia.....	1910	150,540,000	126,450,000	825,170,000	121,220,000	19,140,000	5,230,000	795,000	24,090,000
	1909	143,040,000	125,770,000	841,610,000	120,270,000	20,310,000	5,500,000	812,000	22,270,000
	1908	101,870,000	86,780,000	904,960,000	83,610,000	17,670,000	3,170,000	867,000	15,090,000
	1907	116,790,000	101,680,000	849,880,000	97,390,000	17,670,000	4,290,000	816,000	15,110,000
	1906	88,790,000	78,000,000	750,760,000	75,150,000	9,950,000	2,850,000	712,000	10,790,000
	1905	102,780,000	89,510,000	780,680,000	85,400,000	23,510,000	4,110,000	804,000	13,270,000
	1904	91,060,000	80,240,000	880,490,000	76,250,000	20,980,000	3,990,000	902,000	11,720,000
	1903	84,740,000	74,910,000	691,710,000	71,950,000	14,070,000	2,060,000	606,000	9,830,000
Louisiana.....	1910	20,130,000	17,250,000	117,420,000	17,250,000	.....	.....	109,000	2,880,000
	1909	20,590,000	17,310,000	121,090,000	17,310,000	.....	.....	112,000	3,280,000
	1908	24,220,000	20,790,000	224,090,000	20,790,000	.....	.....	209,000	3,430,000
	1907	41,870,000	37,070,000	323,460,000	37,070,000	.....	.....	300,000	4,800,000
	1906	52,820,000	47,370,000	473,220,000	47,370,000	.....	.....	440,000	5,450,000
	1905	30,810,000	26,880,000	245,660,000	26,880,000	.....	.....	246,000	3,330,000
	1904	52,410,000	45,150,000	521,330,000	45,150,000	.....	.....	521,000	7,260,000
	1903	55,450,000	48,050,000	395,130,000	48,050,000	.....	.....	395,000	7,400,000
Mississippi.....	1910	104,930,000	88,830,000	604,670,000	88,830,000	.....	.....	561,000	16,100,000
	1909	88,210,000	74,020,000	618,000,000	74,020,000	.....	.....	481,000	14,190,000
	1908	84,720,000	73,210,000	792,330,000	73,210,000	.....	.....	736,000	11,510,000
	1907	90,600,000	80,490,000	702,400,000	80,490,000	.....	.....	652,000	10,110,000
	1906	81,790,000	73,350,000	732,700,000	73,350,000	.....	.....	680,000	8,440,000
	1905	71,640,000	62,750,000	573,590,000	62,750,000	.....	.....	574,000	8,890,000
	1904	87,920,000	74,510,000	860,430,000	74,510,000	.....	.....	861,000	13,410,000
	1903	96,240,000	83,400,000	688,820,000	83,400,000	.....	.....	686,000	12,840,000

¹Included in "All other states" in 1909.

TABLE 11.—NET WEIGHT AND ESTIMATED VALUE OF UPLAND AND OF SEA-ISLAND COTTON AND THE ESTIMATED QUANTITY AND VALUE OF COTTON SEED, BY STATES: 1903 TO 1910—Continued.

STATE.	Growth year.	Aggregate value of cotton crop.	COTTON.				COTTON SEED.		
			Total value.	Upland.		Sea-Island.		Quantity (tons).	Value.
				Quantity (pounds).	Value.	Quantity (pounds).	Value.		
Missouri.....	1910	\$4,870,000	\$4,100,000	28,530,000	\$4,100,000	.....	.....	26,000	\$680,000
	1909	3,650,000	3,000,000	21,590,000	3,000,000	.....	.....	20,000	500,000
	1908	3,120,000	2,740,000	29,080,000	2,740,000	.....	.....	23,000	380,000
	1907	2,230,000	1,990,000	17,370,000	1,990,000	.....	.....	16,000	240,000
	1906	2,030,000	2,610,000	26,040,000	2,610,000	.....	.....	24,000	320,000
	1905	2,550,000	2,240,000	20,480,000	2,240,000	.....	.....	20,000	310,000
	1904	2,500,000	2,130,000	24,700,000	2,130,000	.....	.....	24,000	370,000
	1903	2,550,000	2,210,000	18,100,000	2,210,000	.....	.....	18,000	340,000
North Carolina.....	1910	59,350,000	49,430,000	336,500,000	49,430,000	.....	.....	312,000	9,920,000
	1909	48,860,000	40,920,000	286,360,000	40,920,000	.....	.....	266,000	7,940,000
	1908	33,880,000	28,500,000	308,440,000	28,500,000	.....	.....	286,000	5,380,000
	1907	33,660,000	33,080,000	288,020,000	33,080,000	.....	.....	268,000	5,840,000
	1906	32,650,000	27,650,000	276,210,000	27,650,000	.....	.....	257,000	5,090,000
	1905	37,320,000	32,300,000	295,210,000	32,300,000	.....	.....	295,000	5,020,000
	1904	34,060,000	29,010,000	335,390,000	29,040,000	.....	.....	335,000	5,020,000
	1903	35,380,000	30,660,000	252,140,000	30,660,000	.....	.....	252,000	4,720,000
Oklahoma.....	1910	74,950,000	64,860,000	441,520,000	64,860,000	.....	.....	410,000	10,000,000
	1909	43,660,000	37,230,000	260,540,000	37,230,000	.....	.....	242,000	6,330,000
	1908	34,950,000	30,540,000	330,590,000	30,540,000	.....	.....	307,000	4,410,000
	1907	53,970,000	47,310,000	412,860,000	47,310,000	.....	.....	383,000	6,060,000
	1906	48,340,000	43,050,000	430,050,000	43,050,000	.....	.....	390,000	5,200,000
	1905	39,310,000	35,490,000	324,450,000	35,490,000	.....	.....	324,000	3,520,000
	1904	38,170,000	33,350,000	385,060,000	33,350,000	.....	.....	385,000	4,820,000
	1903	31,180,000	27,160,000	223,400,000	27,160,000	.....	.....	223,000	4,020,000
South Carolina.....	1910	98,630,000	82,520,000	550,730,000	80,900,000	4,540,000	\$1,620,000	518,000	16,110,000
	1909	89,820,000	75,960,000	520,170,000	74,330,000	4,970,000	1,630,000	490,000	13,860,000
	1908	61,960,000	52,330,000	553,760,000	51,176,000	4,970,000	1,160,000	522,000	9,630,000
	1907	72,660,000	62,320,000	520,590,000	60,609,000	4,580,000	1,630,000	490,000	10,340,000
	1906	49,890,000	42,580,000	415,390,000	41,589,000	2,730,000	1,000,000	396,000	7,310,000
	1905	65,860,000	56,080,000	510,320,000	55,830,000	4,380,000	1,150,000	515,000	8,880,000
	1904	56,430,000	48,320,000	545,510,000	47,250,000	3,070,000	1,070,000	540,000	8,110,000
	1903	53,200,000	46,260,000	372,560,000	45,310,000	3,350,000	950,000	376,000	6,940,000
Tennessee.....	1910	27,350,000	23,340,000	158,910,000	23,340,000	.....	.....	148,000	4,010,000
	1909	19,870,000	16,870,000	118,020,000	16,870,000	.....	.....	110,000	3,000,000
	1908	17,480,000	15,230,000	164,890,000	15,230,000	.....	.....	153,000	2,250,000
	1907	17,000,000	15,100,000	131,760,000	15,100,000	.....	.....	122,000	1,900,000
	1906	16,340,000	14,670,000	146,570,000	14,670,000	.....	.....	136,000	1,670,000
	1905	16,630,000	14,590,000	133,460,000	14,590,000	.....	.....	133,000	2,040,000
	1904	16,130,000	13,650,000	157,620,000	13,650,000	.....	.....	158,000	2,480,000
	1903	16,650,000	14,510,000	119,350,000	14,510,000	.....	.....	119,000	2,140,000
Texas.....	1910	247,880,000	214,520,000	1,460,330,000	214,520,000	.....	.....	1,356,000	33,360,000
	1909	201,940,000	172,590,000	1,207,790,000	172,590,000	.....	.....	1,122,000	29,350,000
	1908	192,610,000	168,960,000	1,828,540,000	168,960,000	.....	.....	1,690,000	23,650,000
	1907	144,080,000	126,310,000	1,102,170,000	126,310,000	.....	.....	1,024,000	17,770,000
	1906	223,550,000	200,320,000	2,001,180,000	200,320,000	.....	.....	1,858,000	28,230,000
	1905	148,870,000	133,330,000	1,218,780,000	133,330,000	.....	.....	1,219,000	15,540,000
	1904	152,160,000	130,470,000	1,506,570,000	130,470,000	.....	.....	1,507,000	21,690,000
	1903	165,390,000	144,110,000	1,185,110,000	144,110,000	.....	.....	1,185,000	21,250,000
Virginia.....	1910	1,260,000	1,040,000	7,050,000	1,040,000	.....	.....	7,000	220,000
	1909	810,000	690,000	4,810,000	690,000	.....	.....	4,000	120,000
	1908	640,000	540,000	5,870,000	540,000	.....	.....	5,000	100,000
	1907	590,000	510,000	4,400,000	510,000	.....	.....	4,000	80,000
	1906	780,000	660,000	6,610,000	660,000	.....	.....	6,000	120,000
	1905	890,000	780,000	7,110,000	780,000	.....	.....	7,000	110,000
	1904	760,000	670,000	7,710,000	670,000	.....	.....	8,000	120,000
	1903	870,000	760,000	6,240,000	760,000	.....	.....	6,000	110,000
All other states ¹	1910	340,000	290,000	1,990,000	290,000	.....	.....	2,000	50,000
	1909	190,000	150,000	1,100,000	150,000	.....	.....	2,000	40,000
	1908	120,000	110,000	1,110,000	110,000	.....	.....	1,000	10,000
	1907	170,000	150,000	1,320,000	150,000	.....	.....	1,000	20,000
	1906	120,000	110,000	1,000,000	110,000	.....	.....	1,000	10,000
	1905	80,000	70,000	680,000	70,000	.....	.....	1,000	10,000
	1904	100,000	90,000	970,000	90,000	.....	.....	1,000	10,000
	1903	50,000	40,000	370,000	40,000	.....	.....	1,000	10,000

¹Includes Arizona, Kansas, Kentucky, and New Mexico; and also California in 1909.

The statistics of Table 11 are based upon net weight. Inasmuch as it is the endeavor to state the value of the cotton crop to the growers, the value of linters is included with that of the seed. In computing the value of the crops the quantity of cotton ginned in each case has been multiplied by the corresponding average price given in Table 10, and the estimated quantities of seed produced in the several states have been multiplied by the average prices paid locally by cotton-

seed-oil companies. The values of the cotton and of the seed are combined to constitute the total value of the cotton crop, which appears in the first column of the table. The estimated value of the crop of 1910, as shown in the table, is \$963,180,000, compared with \$812,090,000 for 1909; \$681,230,000 for 1908; \$700,960,000 for 1907; and \$721,650,000 for 1906. Thus the value of the crop of 1910 as estimated is \$151,090,000, or 18.6 per cent, more than the estimate for

1909, notwithstanding the fact that the quantity of lint cotton is only 16.1 per cent greater. The crop of 1910 is the most valuable ever produced.

The estimated value of the cotton crops of the five-year period ending with 1910 is \$3,879,110,000, while the corresponding value for the five-year period ending with 1899 is \$1,529,500,000. During the last five years the price of lint cotton has averaged about 12 cents per pound, or about \$60 per bale, and the value of the cotton seed has increased from \$13.80 per ton in 1906 to \$27.40 per ton in 1910. The value of a 500-pound bale of cotton, including the value of the seed, was \$87.15 this season, compared with \$50.37 for 1904 and with \$30.22 in 1898. To the producer of a crop of 20 bales this means that whereas he realized \$604 in 1898, he received \$1,743 in 1910, which increase, notwithstanding a greater cost of production at the present time, measures the difference between a mere existence and a comfortable and independent living.

Estimated seed production.—In estimating the quantity of seed produced it has generally been assumed that upland cotton, on an average, thirds itself at the gin; that is, that one-third of the cotton's weight before it is ginned is lint and the remaining two-thirds seed. Greater care than heretofore is now being exercised in selecting seed for planting, which, with improved methods of ginning, tends to the production of more lint than formerly. In view of these conditions averages of 35 per cent lint for upland and 25 per cent lint for sea-island cotton have been used to arrive at the quantity of seed grown in 1910, which is estimated at 5,175,000 tons. Only relative accuracy can be claimed for these figures, as different seasons and different localities in the same season present conditions which demand separate consideration. The character of soil, methods of cultivation, and weather conditions during the growing and maturing periods materially affect the result.

Number of ginneries.—The number of ginneries, both active and idle, reported for each year from 1906 to 1910, and the average number of running bales ginned per active establishment are shown, by states, in Table 12.

The number of establishments which ginned cotton from the growth of 1910 was 26,234, compared with 26,669 in 1909. The average number of bales per ginnery was 443 in 1910 and 381 in 1909. As a result of the use of larger and more modern ginneries in the West, the average number of bales ginned per establishment is naturally larger for that section than for the East; the figures are 947 bales in Oklahoma and 724 bales in Texas, compared with 424 in Georgia, 372 in South Carolina, 359 in Alabama, and 267 in North Carolina. It is the practice of the bureau to retain on the official list and to class as "idle" all establishments which contain the machinery necessary for ginning and which may be operated at some future time, and to drop from the list as "dismantled" only those not properly equipped with ginning

machinery. This accounts in part for the relatively large number of idle establishments.

TABLE 12.—Number of active and idle ginneries, and average number of running bales, excluding linters, ginned per active establishment, by states: 1906 to 1910.

STATE.	Growth year.	NUMBER OF GINNERIES.			Average number of running bales ginned per active establishment.
		Total.	Active.	Idle.	
United States.....	1910	29,380	26,234	3,146	443
	1909	29,465	26,669	2,796	381
	1908	30,345	27,598	2,747	478
	1907	30,822	27,592	3,230	404
	1906	31,325	28,709	2,616	457
Alabama.....	1910	3,610	3,337	273	359
	1909	3,645	3,408	237	308
	1908	3,702	3,490	212	384
	1907	3,857	3,490	367	324
	1906	3,984	3,658	326	343
Arkansas.....	1910	2,257	2,035	222	393
	1909	2,273	2,051	222	342
	1908	2,540	2,123	417	471
	1907	2,381	2,115	266	357
	1906	2,487	2,312	175	359
California ¹	1910	7	7	.....	855
Florida.....	1910	312	275	37	244
	1909	293	252	41	246
	1908	301	258	43	274
	1907	304	250	54	219
	1906	309	276	33	223
Georgia.....	1910	4,818	4,270	548	424
	1909	4,843	4,437	406	417
	1908	4,950	4,475	475	442
	1907	5,106	4,567	539	408
	1906	5,135	4,586	549	357
Louisiana.....	1910	1,760	1,249	511	199
	1909	1,840	1,431	409	184
	1908	2,011	1,708	303	280
	1907	2,125	1,874	251	364
	1906	2,225	2,076	149	471
Mississippi.....	1910	3,537	3,052	485	397
	1909	3,655	3,283	372	327
	1908	3,896	3,491	405	464
	1907	3,987	3,541	446	408
	1906	4,152	3,780	372	393
Missouri.....	1910	98	93	5	634
	1909	92	86	6	517
	1908	90	80	10	731
	1907	94	76	18	449
	1906	91	81	10	639
North Carolina.....	1910	3,068	2,821	247	267
	1909	3,026	2,781	245	228
	1908	3,034	2,788	246	245
	1907	3,039	2,754	285	232
	1906	3,039	2,792	247	210
Oklahoma.....	1910	1,061	986	75	947
	1909	1,036	897	139	632
	1908	1,057	987	70	722
	1907	1,051	971	80	897
	1906	987	939	48	950
South Carolina.....	1910	3,521	3,253	268	372
	1909	3,451	3,238	213	361
	1908	3,481	3,241	240	275
	1907	3,437	3,102	245	365
	1906	3,394	3,146	248	290
Tennessee.....	1910	674	602	72	533
	1909	705	633	72	380
	1908	761	657	104	509
	1907	784	673	111	396
	1906	833	702	131	417
Texas.....	1910	4,506	4,120	386	724
	1909	4,452	4,057	395	620
	1908	4,507	4,160	348	837
	1907	4,601	3,995	606	563
	1906	4,532	4,232	300	952
Virginia.....	1910	142	121	21	133
	1909	138	106	32	101
	1908	146	118	28	111
	1907	148	108	40	89
	1906	152	124	28	118
All other states ²	1910	9	7	2	555
	1909	11	9	2	260
	1908	9	8	1	246
	1907	8	7	1	330
	1906	5	5	.....	384

¹Included in "All other states" in 1909.

²Includes Arizona, Kansas, Kentucky, and New Mexico; and also California in 1909.

Ginning machinery.—The statistics of Table 13, collected by special inquiries with regard to ginning machinery employed for upland cotton of the crops grown in 1909 and 1906, will be found to be especially interesting in showing the tendency toward consolidation in the ginning industry.

TABLE 13.—NUMBER OF ACTIVE GINNERIES, NUMBER OF GINS AND SAWS, AVERAGE NUMBER OF SAWS PER ESTABLISHMENT, AND CLASSIFICATION OF GINNERIES ACCORDING TO KIND OF POWER USED AND NUMBER OF SAWS, BY STATES: 1909 AND 1906.

STATE.	Year.	Active gin-neries. ¹	Gins.	Saws.	Average number of saws per gin-neries.	GINNERIES CLASSIFIED ACCORDING TO POWER USED.								
						Steam. ²			Water. ³			Gasoline.		
						Gin-neries.	Gins.	Saws.	Gin-neries.	Gins.	Saws.	Gin-neries.	Gins.	Saws.
United States.....	1909	26,431	57,339	3,709,835	140	23,766	53,653	3,484,701	1,544	1,954	115,704	805	1,113	70,805
	1906	28,480	54,553	3,597,400	126	25,092	51,173	3,403,845	1,825	2,104	120,040	438	552	34,005
Alabama.....	1909	3,408	6,186	401,955	118	2,848	5,494	361,060	390	487	28,445	116	140	8,940
	1906	3,058	6,159	393,320	108	2,996	5,380	349,500	450	546	31,170	88	113	7,180
Arkansas.....	1909	2,051	5,729	267,908	131	1,964	5,637	262,658	55	58	3,160	18	20	1,380
	1906	2,312	3,929	263,205	114	2,203	3,815	257,230	66	67	3,515	9	13	770
Florida.....	1909	156	220	14,010	90	121	184	11,860	29	30	1,780	5	5	330
	1906	178	233	14,505	81	135	190	12,090	34	34	1,925	5	5	310
Georgia.....	1909	4,374	8,817	569,925	130	3,815	8,044	524,761	368	477	27,584	142	190	11,080
	1906	4,529	8,228	518,275	114	3,940	7,494	477,155	443	560	31,700	88	103	5,805
Louisiana.....	1909	1,431	2,597	175,015	122	1,390	2,540	171,340	29	34	2,115	5	5	350
	1906	2,076	3,524	237,475	114	2,014	3,446	232,780	37	41	2,410	4	5	350
Mississippi.....	1909	3,283	6,537	443,702	135	3,064	6,240	426,202	130	164	10,010	33	38	2,385
	1906	3,780	6,789	457,725	121	3,478	6,456	438,980	157	171	10,015	18	21	1,330
North Carolina.....	1909	2,781	3,850	242,160	87	2,342	3,316	200,585	201	231	13,280	186	202	12,075
	1906	2,792	3,648	223,815	80	2,422	3,236	200,775	237	258	14,415	76	80	4,640
Oklahoma.....	1909	897	3,180	223,080	249	890	3,163	221,930	3	6	350	1	3	210
	1906	939	3,169	220,130	234	927	3,141	218,100	8	15	990	2	5	350
South Carolina.....	1909	3,159	5,124	332,835	105	2,688	4,495	293,145	257	298	17,665	179	214	13,610
	1906	3,078	4,700	299,985	97	2,663	4,206	270,870	278	313	17,995	93	104	6,355
Tennessee.....	1909	633	1,277	87,715	139	590	1,213	83,725	18	26	1,595	9	10	670
	1906	702	1,244	84,085	120	635	1,172	80,240	27	32	1,785	3	3	180
Texas.....	1909	4,057	13,461	928,320	229	3,892	13,009	897,615	54	133	8,850	86	258	18,165
	1906	4,232	12,599	864,465	204	4,100	12,340	847,450	70	144	9,460	36	83	5,705
All other states ⁴	1909	201	352	22,710	113	162	309	20,220	10	10	540	26	28	1,610
	1906	210	331	20,415	97	179	297	18,585	12	13	600	16	17	1,030

STATE.	Year.	GINNERIES CLASSIFIED ACCORDING TO POWER USED—contd.						GINNERIES CLASSIFIED ACCORDING TO NUMBER OF SAWS.					
		Animal.			Electric.			Less than 50.	50 but less than 75.	75 but less than 100.	100 but less than 200.	200 but less than 500.	500 and over.
		Gin-neries.	Gins.	Saws.	Gin-neries.	Gins.	Saws.						
United States.....	1909	199	199	9,505	110	420	29,120	712	9,754	1,227	8,264	6,017	457
	1906	481	482	22,810	50	152	10,700	1,117	11,916	1,514	8,296	5,306	337
Alabama.....	1909	50	50	2,250	4	15	690	167	1,364	209	1,180	450	38
	1906	116	116	5,200	2	4	270	249	1,634	251	1,115	364	42
Arkansas.....	1909	14	14	710	.....	.....	.....	42	691	148	707	387	16
	1906	34	34	1,690	.....	.....	.....	57	1,097	218	747	260	17
Florida.....	1909	1	1	40	.....	.....	.....	5	97	25	25	4	.....
	1906	3	3	120	1	1	60	19	104	20	23	7	.....
Georgia.....	1909	25	25	1,060	24	81	5,440	200	1,635	169	1,489	811	70
	1906	51	52	2,295	7	19	1,260	297	1,957	179	1,417	633	46
Louisiana.....	1909	5	5	300	2	13	910	12	588	84	524	214	9
	1906	19	19	1,015	2	13	920	22	938	161	701	241	13
Mississippi.....	1909	48	48	2,505	8	38	2,600	35	1,098	216	1,308	585	41
	1906	122	122	6,110	5	19	1,290	89	1,521	319	1,266	551	34
North Carolina.....	1909	22	22	970	30	88	6,250	125	1,730	130	625	155	7
	1906	49	49	2,155	8	25	1,830	201	1,838	135	498	117	3
Oklahoma.....	1909	.....	.....	.....	3	8	560	.....	9	2	185	678	23
	1906	.....	.....	.....	2	8	600	.....	27	5	239	640	28
South Carolina.....	1909	11	11	505	24	106	7,610	71	1,771	154	817	315	31
	1906	27	27	1,175	17	50	3,590	123	1,873	112	686	270	14
Tennessee.....	1909	10	10	475	6	18	1,250	10	199	44	214	162	4
	1906	37	37	1,880	.....	.....	.....	11	301	50	212	125	3
Texas.....	1909	12	12	650	13	49	3,540	11	481	39	1,095	2,214	217
	1906	21	21	1,090	5	11	760	10	619	56	1,351	2,059	137
All other states ⁴	1909	1	1	40	2	4	300	34	82	7	35	42	1
	1906	2	2	50	1	2	120	39	97	5	36	33	.....

¹ Does not include 238 establishments in 1909 and 223 in 1906 engaged exclusively in ginning sea-island cotton, which do not use saws.
² Includes 4 establishments using steam and gasoline and 3 using steam and electric power in 1909.
³ Includes 20 establishments using water and steam and 2 using water and gasoline in 1909, and 39 using water and steam and 1 using water and gasoline in 1906.
⁴ Includes Arizona, California, Kansas, Kentucky, Missouri, New Mexico, and Virginia.

Large modern plants are superseding the small and poorly equipped ones, and as the number of active establishments decreases the number of gins or machines and the number of saws operated increase. In the three years from 1906 to 1909 the number of establishments which ginned upland cotton decreased by 2,055, or 7.2 per cent, but the number of gin stands increased by 2,786, or 5.1 per cent, and the number of saws by 112,435, or 3.1 per cent. The average number of saws per ginney increased in the three years from 126 to 140, or 11.1 per cent. Under perfect conditions of operating, the average yield of lint cotton per saw is probably about 6 pounds per hour.

Classification of ginneries according to power used.—Of the total number of ginneries active in 1909, 89.9 per cent used steam power and 5.8 per cent water power. The number of establishments reported as using animal power in 1909 was only 199, compared with 481 in 1906; the number using gasoline increased from 438 in 1906 to 806 in 1909; and the number using electric power from 50 to 116. Practically all of the active establishments in Oklahoma were operated with steam power in 1909, and 3,892, or 95.9 per cent, of those in Texas used this power. The states showing the largest percentages of ginneries using water power in 1909 were Florida, with 18.6 per cent; Alabama, 11.4 per cent; Georgia, 8.4 per cent; and South Carolina, 8.1 per cent. North Carolina led in the use of both gasoline and electric power, 186 of the establishments in that state utilizing the former and 30 the latter.

Of the total number of ginneries in Texas in 1909, nearly 55 per cent were equipped with gin stands containing from 200 to 499 saws, and the number of establishments in that state containing stands of 500 saws and over increased from 137 in 1906 to 217 in 1909. This is in marked contrast with the conditions in North Carolina, where in 1909 about two-

thirds of the establishments were equipped with gins having 50 to 74 saws. As large ginneries are more general in the newer cotton-growing communities, it is only natural that Oklahoma, which is the latest state to take up the cultivation on an important scale, should lead, with an average of 249 saws per establishment. Texas ranks second, with an average of 229; Mississippi next, with 135; South Carolina fourth, with 105; and North Carolina fifth, with 87. Statistics of machinery used were not collected for 1910.

Acreage and production, by states.—Table 14 shows, by states, the acreage from which cotton was harvested and the crops for selected years.

According to the Bureau of Statistics of the United States Department of Agriculture, the area planted in cotton in 1910 was 33,418,000 acres, of which 1,015,000 acres, or 3 per cent, were abandoned, leaving 32,403,000 acres as the area from which the crop was harvested. The average production per acre in 1910 was 171 pounds, compared with 155 pounds in 1909. It is interesting to observe that between 1879 and 1910 the acreage increased 124 per cent and the production 108 per cent. However, the crop of 1908, amounting to 13,432,131 bales, represents more nearly the normal production, and shows an increase of 133 per cent over the crop of 1879. In 1839 Delaware, Maryland, Indiana, and Illinois all produced cotton, Illinois alone contributing more than 5,000 bales. Stimulated by the high prices following the Civil War, cotton was cultivated to a limited extent in West Virginia, Nevada, California, Illinois, and Utah, in all of which states its cultivation subsequently ceased. New Mexico, which produced more than 7,000 pounds of cotton in 1859, afterwards abandoned its culture, but has again established the industry, having produced about 810 bales in 1910. California also has resumed the culture, having a yield this year of more than 6,000 bales.

TABLE 14.—COTTON ACREAGE HARVESTED AND PRODUCTION, BY STATES, FOR SELECTED YEARS: 1839 TO 1910.

[Quantities are given in running bales, except that round bales are counted as half bales. Linters are included. Census statistics of acreage prior to 1879 are not available. The statistics of acreage and production for census years, except acreage for 1909, and those of production since 1893 are census figures, while the others are as published by the United States Department of Agriculture.]

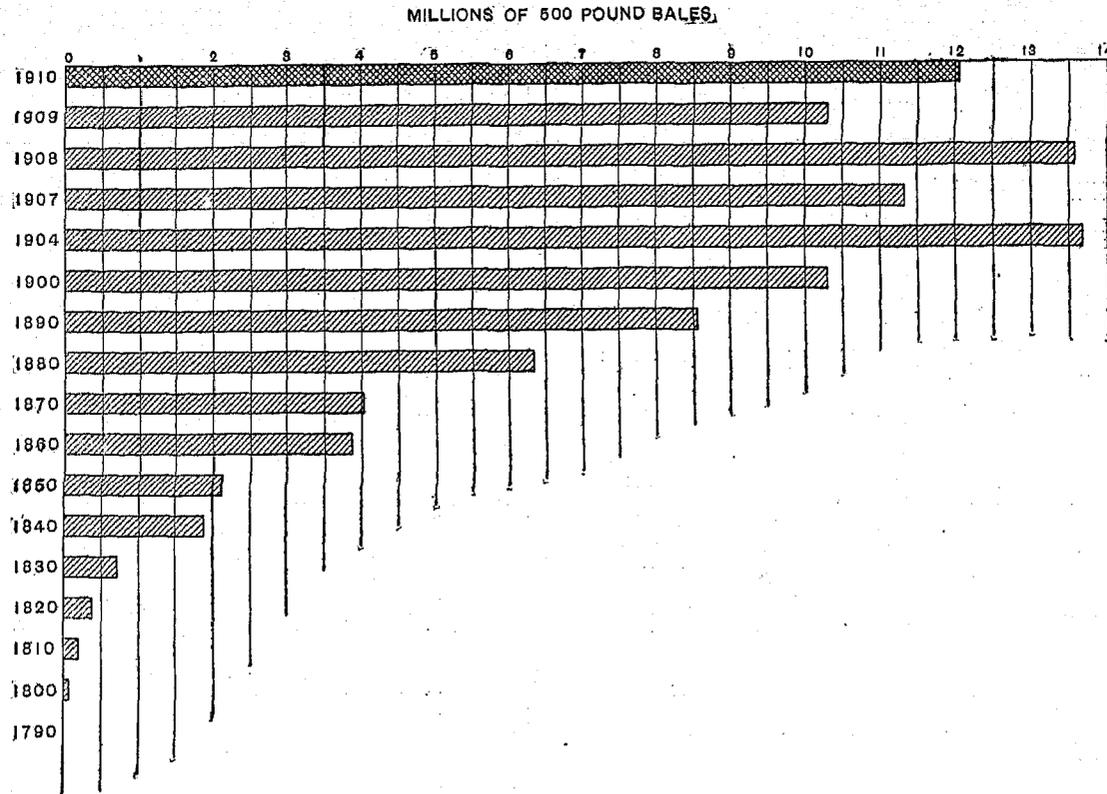
GROWTH YEAR.	United States.	Alabama.	Arkansas.	Florida.	Georgia.	Louisiana.	Mississippi.	Missouri. ¹	North Carolina.	Oklahoma.	South Carolina.	Tennessee.	Texas.	Virginia.
1910:														
Acres.....	32,403,000	3,560,000	2,238,000	257,000	4,873,000	975,000	3,317,000	109,000	1,478,000	2,204,000	2,534,000	765,000	10,060,000	33,000
Bales.....	11,965,962	1,221,225	824,228	68,437	1,867,915	266,375	1,254,419	75,497	774,752	955,951	1,240,540	337,596	3,072,932	16,095
1909:														
Acres.....	30,938,000	3,471,000	2,218,000	237,000	4,674,000	930,000	3,291,000	79,000	1,359,000	1,767,000	2,492,000	735,000	9,660,000	25,000
Bales.....	10,386,209	1,065,377	718,117	62,936	1,901,830	269,573	1,109,580	52,152	649,836	878,786	1,164,309	253,397	2,554,520	10,746
1908:														
Acres.....	32,444,000	3,591,000	2,296,000	265,000	4,848,000	1,550,000	3,395,000	87,000	1,458,000	2,311,000	2,545,000	754,000	9,316,000	28,000
Bales.....	13,432,131	1,369,601	1,020,704	71,023	2,026,999	481,979	1,668,461	65,883	701,356	705,200	1,242,012	349,525	3,724,575	13,113
1907:														
Acres.....	31,311,000	3,439,000	1,950,000	265,000	4,774,000	1,022,000	3,220,000	71,000	1,408,000	2,196,000	2,426,000	749,000	9,156,000	35,000
Bales.....	11,325,882	1,133,285	770,214	57,736	1,901,576	679,782	1,478,089	40,751	652,930	870,238	1,180,672	277,114	2,267,293	9,602
1906:														
Acres.....	31,374,000	3,658,000	2,097,000	283,000	4,610,000	1,789,000	3,408,000	91,000	1,374,000	1,981,000	2,389,000	814,000	8,894,000	36,000
Bales.....	13,305,265	1,263,674	916,106	62,830	1,667,866	979,270	1,521,491	57,476	626,642	893,062	931,726	304,054	4,066,472	14,596
1905:														
Acres.....	26,117,153	3,500,168	1,718,751	256,173	3,783,703	1,561,774	3,051,265	66,444	1,085,568	1,234,822	2,161,923	737,397	6,945,501	38,664
Bales.....	10,725,602	1,249,685	615,337	80,180	1,759,983	623,871	1,198,568	44,205	664,931	675,562	1,120,426	278,304	2,490,128	16,259
1904:														
Acres.....	30,053,739	3,611,731	2,051,185	267,372	4,227,188	1,745,865	3,632,453	79,403	1,306,968	1,315,663	2,531,875	881,341	8,355,491	47,103
Bales.....	13,697,310	1,471,170	916,945	89,002	1,992,757	1,107,271	1,808,617	53,394	753,846	811,552	1,208,180	320,627	3,132,503	17,410
1903:														
Acres.....	28,016,893	3,608,049	1,925,191	268,666	4,048,912	1,642,463	3,327,960	68,529	1,155,023	1,020,357	2,313,100	783,196	7,801,578	39,864
Bales.....	10,015,721	1,000,735	733,859	59,317	1,327,596	836,334	1,441,718	38,623	563,694	464,412	820,777	251,016	2,454,616	14,024
1902:														
Acres.....	27,114,103	3,501,614	1,901,753	253,961	3,863,542	1,617,586	3,183,989	61,830	1,075,743	1,017,090	2,205,016	754,600	7,640,531	36,843
Bales.....	10,784,473	1,077,045	907,748	68,217	1,499,862	886,365	1,451,750	14,592	676,070	538,352	961,822	319,244	2,475,881	16,925
1901:														
Acres.....	27,220,414	3,642,964	1,854,482	254,596	4,006,199	1,586,124	3,193,570	55,183	1,112,260	837,673	2,248,569	737,337	7,656,312	35,145
Bales.....	9,748,546	1,123,764	727,265	57,644	1,393,054	852,448	1,280,307	30,851	456,363	374,627	741,233	205,287	2,491,394	14,393
1900:														
Acres.....	25,758,139	3,403,746	1,742,787	235,451	3,783,015	1,480,781	3,194,795	50,173	1,091,034	799,096	2,195,252	662,612	7,178,015	30,572
Bales.....	10,245,602	1,038,302	812,629	55,896	1,272,838	720,058	1,061,973	27,830	513,677	349,355	787,231	225,350	3,368,310	12,133
1899:														
Acres.....	24,275,101	3,202,135	1,641,855	221,825	3,513,830	1,376,254	2,897,920	48,201	1,007,020	682,743	2,074,081	623,137	6,660,367	25,724
Bales.....	9,567,786	1,095,329	711,739	56,875	1,300,184	713,929	1,257,772	20,366	477,070	212,010	881,192	216,668	2,556,413	9,239
1898:														
Acres.....	24,967,295	3,003,176	1,876,467	182,452	3,535,205	1,281,691	2,900,298	82,498	1,311,708	530,799	2,353,213	896,722	6,991,904	51,162
Bales.....	11,189,205	1,176,642	919,469	35,064	1,378,731	717,747	1,247,123	33,207	626,620	316,864	1,036,414	322,620	3,363,109	13,990
1897:														
Acres.....	24,319,584	2,709,460	1,619,785	251,109	3,537,702	1,245,399	2,778,610	83,784	1,302,437	534,666	2,074,778	967,077	7,104,175	50,612
Bales.....	10,897,857	1,112,681	942,207	63,657	1,350,781	788,325	1,624,771	27,082	646,726	317,561	1,080,985	298,695	2,822,408	12,878
1896:														
Acres.....	23,273,209	2,656,333	1,542,652	264,325	3,468,335	1,245,399	2,885,316	70,373	1,223,714	219,674	2,014,348	912,337	6,758,656	47,747
Bales.....	8,532,705	833,789	605,043	48,730	1,299,940	567,251	1,201,000	24,717	521,795	122,956	936,463	236,781	2,122,701	11,639
1895:														
Acres.....	20,184,808	2,371,726	1,186,655	191,540	3,069,323	1,142,568	2,487,119	48,212	1,050,183	238,940	1,814,728	712,763	5,826,428	44,623
Bales.....	7,161,934	663,916	520,800	38,722	1,067,377	513,843	1,013,358	11,934	307,752	82,771	764,700	172,560	1,905,337	7,964
1894:														
Acres.....	23,687,050	2,664,861	1,483,319	201,621	3,610,968	1,313,296	2,826,272	72,107	1,296,522	262,800	2,160,391	870,954	6,854,621	61,128
Bales.....	9,901,251	900,439	748,206	50,729	1,247,952	700,767	1,231,227	25,543	479,441	135,566	862,604	304,981	3,140,392	13,414
1893:														
Acres.....	19,525,000	2,316,000	1,867,250	165,000	3,050,000	946,000	2,845,400	310,670	1,180,000	(?)	1,885,000	805,920	4,153,760	(?)
Bales.....	7,493,000	810,000	679,000	55,000	1,000,000	473,000	1,050,000	103,000	400,000	(?)	650,000	276,000	1,997,000	(?)
1889:														
Acres.....	20,175,270	2,761,165	1,709,578	227,370	3,345,104	1,270,154	2,883,278	60,620	1,147,136	71,187	1,987,469	747,471	3,934,525	39,213
Bales.....	7,472,511	915,210	691,494	57,928	1,191,846	659,180	1,154,725	16,941	336,261	34,540	747,190	190,579	1,471,242	5,375
1884:														
Acres.....	17,439,612	2,740,941	1,259,858	268,111	2,958,930	922,581	2,362,447	70,920	1,061,048	(?)	1,716,128	815,678	3,186,698	46,302
Bales.....	5,682,000	648,700	531,400	57,300	807,400	485,200	883,200	30,200	404,100	(?)	511,800	313,800	995,400	13,500
1879:														
Acres.....	14,450,019	2,330,086	1,042,976	245,595	2,617,138	864,787	2,106,215	34,783	893,153	35,000	1,364,249	722,562	2,178,435	45,040
Bales.....	5,755,359	699,654	608,256	54,997	814,441	508,569	963,111	21,685	389,598	17,000	622,518	330,621	805,234	19,595
1869: Bales ²	3,011,996	429,482	247,968	39,789	473,934	359,832	564,938	2,965	144,935	.....	224,500	181,842	360,628	183
1859: Bales ²	5,387,952	989,955	367,393	65,153	701,840	777,738	1,202,507	42,886	145,514	.....	353,412	296,464	431,463	12,727
1849: Bales ²	2,469,093	564,429	65,344	45,131	499,091	178,737	484,292	772	73,845	.....	300,901	194,532	58,072	3,947
1839: Bales ²	2,063,915	305,846	15,741	31,620	426,612	398,317	504,965	2,662	135,578	.....	161,123	72,327	.....	9,124

¹ Includes statistics for other cotton-producing localities not named; also for Oklahoma and Virginia in 1893 and for Oklahoma in 1884.

² Included with Missouri.

³ The statistics of bales for 1849, 1859, and 1869 are in equivalent 400-pound bales, as expressed in the census reports for those years; those for 1839 are in equivalent bales of 388 pounds, net weight.

DIAGRAM 1.—COTTON PRODUCTION IN SPECIFIED YEARS: 1790 TO 1910.



Cotton industry and trade of the United States.—A complete record of the cotton industry in the United States covering annual statistics of production, value of lint per pound, consumption, exports, and imports since 1790 is given in Table 15. Because of variations in the weights of bales and differences in the methods of collecting and compiling statistics

employed by the several authorities consulted, absolute accuracy can not be claimed for all of the statistics of this table, but it is believed that the figures closely approach the facts. Certainly a very interesting record of the American cotton industry is presented, and the table will serve as a valuable reference.

TABLE 15.—ANNUAL PRODUCTION, CONSUMPTION, EXPORTS, AND NET IMPORTS OF RAW COTTON, FOR THE UNITED STATES: 1790 TO 1910.

Production.—The production statistics relate, when possible, to the year of growth, but when figures for the growth year are wanting, those for a commercial crop which represents the trade movement have been taken. The statistics of production for the years 1790 to 1898, inclusive, have been compiled from publications of the United States Department of Agriculture; for the years 1899 to 1910, inclusive, and for other dates, when available, census figures are used.

Value of lint.—From 1902 to 1910, inclusive, the value of lint per pound relates to upland cotton of the average grade marketed prior to April 1 of the following year; from 1890 to 1901, inclusive, it is the average price of middling cotton on the New Orleans Cotton Exchange; and from 1790 to 1889, inclusive, it is taken from reports of the United States Department of Agriculture.

Consumption.—The statistics of consumption for the years 1790 to 1894, inclusive, have been compiled from publications of the United States Department of Agriculture, and those for the years 1895 to 1903, inclusive, from the reports of Latham, Alexander & Co. Census figures are used for the years 1904 to 1910, inclusive, and for other dates when available. The statistics relate to the 12 months during which the crop of the specified year was chiefly marketed, and not to the calendar year specified.

Domestic exports and net imports.—For the years 1790 to 1819, inclusive, these statistics have been compiled from American state papers, and for the years 1820 to 1910, from Commerce and Navigation of the United States, published by the Bureau of Statistics, Department of Commerce and Labor. For the years 1790 to 1842, inclusive, the statistics of exports relate to the 12 months beginning with October 1 of the specified year; for 1843 to 1886, inclusive, to the 12 months beginning with July 1; and for 1887 to 1910, inclusive, to the 12 months beginning with September 1. The statistics of imports relate to the same period as the statistics of consumption.

YEAR.	PRODUCTION.				Consumption (equivalent 500-pound bales).	Exports of domestic cotton (equivalent 500-pound bales).	Net imports (equivalent 500-pound bales).	YEAR.	PRODUCTION.				Consumption (equivalent 500-pound bales).	Exports of domestic cotton (equivalent 500-pound bales).	Net imports (equivalent 500-pound bales).
	Running bales, counting round as half bales (number).	Equivalent 500-pound bales, gross weight (number).	Average net weight of bale (lbs.).	Value of lint per pound, upland cotton (cents).					Running bales, counting round as half bales (number).	Equivalent 500-pound bales, gross weight (number).	Average net weight of bale (lbs.).	Value of lint per pound, upland cotton (cents).			
1810.....	11,065,062	12,005,688	480	14.7	.....	.....	.....	1849.....	12,409,003	1,975,274	429	12.3	575,506	1,270,793	485
1809.....	10,386,200	10,315,382	475	14.3	4,559,002	6,491,843	151,895	1848.....	2,866,936	2,615,031	436	7.5	580,032	2,059,204	22
1808.....	13,432,131	13,587,306	484	9.2	5,198,963	8,889,724	165,451	1847.....	2,439,786	2,128,433	417	8.0	537,427	1,628,549	558
1807.....	11,325,882	11,375,401	480	11.5	4,493,023	7,770,508	140,869	1846.....	1,778,651	1,603,763	431	11.2	385,916	1,054,440	122
1806.....	13,305,265	13,595,498	490	10.0	4,974,199	8,825,236	202,733	1845.....	2,100,537	1,806,110	411	7.9	363,365	1,095,116	386
1805.....	10,725,602	10,804,556	482	10.9	4,877,465	6,975,494	133,494	1844.....	2,304,503	2,078,910	415	5.0	337,730	1,745,812	2 680
1804.....	13,697,310	13,679,954	478	8.7	4,523,208	9,057,397	130,182	1843.....	2,030,409	1,750,060	412	7.7	298,872	1,327,267	517
1803.....	10,015,721	10,045,615	480	12.2	3,980,567	6,233,682	100,298	1842.....	2,378,875	2,035,481	409	7.2	278,196	1,684,694	1,835
1802.....	10,784,473	10,827,168	481	8.2	4,187,076	6,913,500	149,113	1841.....	1,683,574	1,398,282	397	7.8	222,461	1,169,434	107
1801.....	9,748,546	9,675,717	489	8.1	4,080,287	6,870,313	190,080	1840.....	1,634,954	1,347,640	394	9.5	245,045	1,060,408	1,210
1800.....	10,245,602	10,266,527	480	9.3	3,603,516	6,806,672	116,610	1839.....	2,063,915	1,653,722	383	8.9	230,525	1,487,882	297
1809.....	9,507,786	9,459,935	476	7.6	3,687,253	6,167,623	134,778	1838.....	1,360,532	1,062,980	384	13.4	221,738	827,248	319
1808.....	11,189,205	11,435,368	489	4.9	3,672,097	7,626,525	103,223	1837.....	1,801,497	1,428,384	379	10.1	195,100	1,101,905	355
1807.....	10,897,857	10,985,040	482	5.6	3,472,398	7,811,031	105,802	1836.....	1,429,930	1,129,016	379	13.2	176,449	888,423	2 510
1806.....	8,532,765	8,515,640	477	7.3	2,841,394	6,124,026	114,712	1835.....	1,360,725	1,061,821	373	16.5	184,731	847,263	427
1805.....	7,161,094	7,146,772	477	8.2	2,499,731	4,701,505	112,001	1834.....	1,253,406	962,343	367	17.4	166,523	774,718	1,574
1804.....	9,901,251	10,025,534	484	5.9	2,083,665	6,061,372	99,399	1833.....	1,225,895	930,962	363	12.9	149,159	769,436	308
1803.....	7,493,000	7,433,059	474	7.5	2,300,276	5,307,295	59,405	1832.....	1,114,286	815,900	350	12.3	142,352	649,397	69
1802.....	6,700,365	6,658,313	475	8.4	2,415,875	4,485,251	85,735	1831.....	1,069,444	805,439	360	9.4	130,895	644,430	22
1801.....	9,035,379	8,940,867	473	7.3	2,846,753	5,896,800	64,394	1830.....	1,026,393	732,218	341	9.7	129,938	653,960	2 22
1800.....	8,682,597	8,562,089	473	8.6	2,604,491	5,860,219	45,680	1829.....	1,076,696	763,598	330	10.0	89,723	596,918	378
1889.....	7,472,511	7,472,511	478	11.5	2,518,409	4,928,921	18,334	1828.....	953,079	679,916	341	9.9	84,788	429,874	2 40
1888.....	6,938,290	6,923,775	477	10.7	2,309,250	4,730,192	15,284	1827.....	805,970	594,854	335	10.3	84,516	421,181	597
1887.....	7,046,833	6,884,667	467	10.3	2,205,302	4,519,254	11,983	1826.....	1,057,402	732,218	331	9.3	103,535	588,020	74
1886.....	6,505,087	6,314,561	464	10.3	2,049,687	4,301,542	7,552	1825.....	817,308	533,473	312	12.2	.....	409,071	79
1885.....	6,575,691	6,300,341	463	9.4	2,004,682	4,200,651	8,270	1824.....	751,748	449,791	286	18.6	.....	352,900	26
1884.....	5,682,000	5,477,448	460	10.5	1,687,108	3,783,310	7,144	1823.....	656,028	387,020	282	14.7	.....	286,730	932
1883.....	5,713,200	5,521,063	462	10.6	1,813,865	3,733,369	11,247	1822.....	704,698	439,331	298	11.4	.....	347,447	110
1882.....	6,949,756	6,833,442	470	10.6	2,038,400	4,591,331	4,716	1821.....	636,042	376,569	283	14.3	.....	280,350	2 136
1881.....	5,456,048	5,314,447	450	12.2	1,849,457	3,776,521	3,261	1820.....	575,540	334,728	278	14.3	100,000	249,787	427
1880.....	6,005,750	6,356,998	460	11.3	1,865,922	4,453,495	5,447	1819.....	682,576	349,372	264	17.0	.....	255,720	2 4,571
1879.....	5,755,359	5,466,387	454	12.0	1,500,688	3,742,752	7,578	1818.....	446,420	261,506	280	24.0	.....	175,994	2 4,454
1878.....	5,074,155	4,745,078	447	10.8	1,457,266	3,290,167	5,049	1817.....	465,950	271,967	279	34.0	.....	184,042	3,086
1877.....	4,773,865	4,494,224	450	11.3	1,458,667	3,197,439	5,046	1816.....	439,716	259,414	282	26.0	.....	171,269	2,048
1876.....	4,474,069	4,118,390	440	11.7	1,314,489	2,839,418	4,832	1815.....	369,004	209,205	271	29.0	.....	163,894	2 44
1875.....	4,632,313	4,302,818	444	13.0	1,255,712	3,037,650	4,498	1814.....	254,545	146,444	275	21.0	51,778	165,997	2 260
1874.....	3,832,901	3,528,276	440	15.0	1,098,163	2,504,118	3,784	1813.....	304,878	159,904	246	15.5	.....	35,458	101
1873.....	4,170,388	3,873,750	444	17.0	1,213,052	2,682,631	3,541	1812.....	304,878	156,904	246	12.5	.....	38,220	3,133
1872.....	3,930,508	3,650,932	444	18.2	1,115,691	2,470,590	10,016	1811.....	325,203	167,364	246	10.5	.....	57,775	897
1871.....	2,974,351	2,754,564	443	20.5	1,146,730	1,824,937	6,374	1810.....	286,195	177,824	297	15.5	.....	124,116	431
1870.....	4,352,317	4,024,527	442	17.0	1,026,583	2,922,757	1,802	1809.....	328,000	171,548	250	16.0	33,473	186,523	2 560
1869.....	3,011,966	2,409,597	440	24.0	796,616	1,987,708	3,026	1808.....	334,821	156,904	224	16.0	.....	101,981	2 1,601
1868.....	2,366,467	2,198,141	444	29.0	860,481	1,300,449	1,870	1807.....	289,855	167,364	276	19.0	.....	21,261	6,297
1867.....	2,519,554	2,345,610	445	24.9	844,044	1,502,756	345	1806.....	285,714	167,364	280	21.5	.....	127,889	1,485
1866.....	2,097,254	1,948,077	444	31.6	715,258	1,401,607	2 1,035	1805.....	304,348	146,444	230	22.0	.....	71,315	961
1865.....	2,269,316	2,093,658	441	43.2	614,540	1,301,146	10,322	1804.....	261,044	135,983	249	23.0	23,013	76,780	456
1864.....	300,000	299,372	477	83.4	344,278	17,789	68,798	1803.....	222,222	125,523	270	20.0	.....	70,068	183
1863.....	450,000	449,059	477	101.5	219,540	23,998	52,405	1802.....	231,092	115,063	238	19.0	.....	75,424	2 1,153
1862.....	1,600,000	1,596,653	477	67.2	237,397	22,770	67,695	1801.....	210,526	100,418	228	19.0	.....	47,768	1,170
1861.....	4,500,000	4,490,586	477	31.3	369,226	10,129	61,731	1800.....	153,509	73,222	228	44.0	18,820	41,822	8,690
1860.....	3,849,469	3,841,416	477	13.0	841,975	615,032	.....	1799.....	88,889	41,841	225	28.0	16,737	35,580	8,870
1859.....	5,387,052	4,309,642	461	11.0	845,410	3,535,373	.....	1798.....	66,667	31,381	225	44.0	.....	19,065	7,532
1858.....	4,018,914	3,758,273	447	12.1	867,489	2,772,937	.....	1797.....	48,889	23,013	225	39.0	.....	18,720	7,761
1857.....	3,257,339	3,012,016	442	12.2	550,708	2,237,245	.....	1796.....	44,444	20,921	225	34.0	.....	7,577	7,537
1856.....	3,093,737	2,873,680	444	13.5	761,614	2,096,565	1,678	1795.....	35,556	16,736	225	36.5	.....	12,213	8,736
1855.....	3,665,557	3,220,782	420	10.3	731,484	2,702,863	2,295	1794.....	35,556	16,736	225	36.5	.....	9,414	8,592
1854.....	2,982,634	2,708,082	434	10.4	641,301	2,016,849	4,425	1793.....	22,222	10,490	225	33.0	.....	3,565	5,127
1853.....	3,074,979	2,765,194	430	11.0	663,204	1,975,066	1,141	1792.....	13,333	6,270	225	32.0	.....	1,097	5,603
1852.....	3,416,214	3,130,338	438	11.0	736,468	2,223,141	1,412	1791.....	8,889	4,184	225	29.0	.....	277	1,112
1851.....	3,126,310	2,799,290	428	9.5	617,468	2,186,461	523	1790.....	6,667	3,138	225	26.0	11,000	379	697
1850.....	2,454,442	2,136,083	416	12.1	422,626	1,854,474	330	.....	.....	.....	.....	.....	.....	.....	.....

1 Equivalent 400-pound bales.

2 Excess of foreign exports over total imports.

TABLE 16.—QUANTITY OF SEA-ISLAND COTTON GINNED FROM THE CROPS OF 1906 TO 1910, BY COUNTIES.

[Cotton shown in this table is also included in Table 17.]

FLORIDA.

COUNTY.	SEA-ISLAND CROP (BALES)—					SEA-ISLAND COTTON GINNED TO DEC. 13 (BALES)—				
	1910	1909	1908	1907	1906	1910	1909	1908	1907	1906
The state.....	29,417	28,158	34,775	28,935	23,005	25,854	26,870	31,072	22,490	21,534
Alachua.....	7,027	5,695	7,749	7,184	5,579	6,391	5,288	7,079	6,133	5,254
Baker.....	1,033	865	845	1,207	499	916	816	761	773	421
Bradford.....	3,251	3,302	3,335	3,412	1,986	2,922	3,231	3,116	2,780	1,833
Columbia.....	2,541	2,377	3,081	2,661	2,260	2,321	2,314	2,843	2,179	2,149
Hamilton.....	3,506	3,756	4,391	3,062	2,736	2,054	3,495	3,669	2,286	2,530
Jackson.....	109	162	204	310	252	75	130	154	189	155
Jefferson.....	160	214	135	113	150	147	209	122	83	100
Lafayette.....	814	638	892	688	727	756	608	839	560	681
Madison.....	6,441	6,470	7,876	5,147	5,479	5,554	6,260	7,104	4,003	6,612
Suwanee.....	3,976	4,296	5,463	4,230	3,717	3,392	4,188	4,788	3,037	3,300
Taylor.....	323	217	435	448	320	294	199	323	270	308
All other.....	227	166	369	473	281	132	132	274	197	173

GEORGIA.

The state.....	47,935	52,060	44,549	44,713	25,484	39,725	47,564	37,952	33,117	21,171
Appling.....	2,854	3,134	2,580	2,437	1,203	2,415	2,056	2,277	1,814	792
Berrien.....	7,186	7,702	6,741	6,217	3,853	6,440	7,271	5,812	4,933	3,534
Brooks.....	982	834	539	849	450	917	808	493	620	414
Bulloch.....	8,659	9,020	7,708	9,456	4,800	6,688	8,095	6,803	6,893	4,388
Clinch.....	644	849	837	705	304	456	781	671	497	227
Coffee.....	4,932	5,318	4,810	3,997	2,400	4,216	4,878	3,988	3,028	1,936
Colquitt.....	610	280	390	650	196	573	259	300	402	182
Echols.....	417	516	326	353	301	375	493	516	249	289
Emanuel.....	219	347	345	677	288	180	338	277	443	194
Irwin.....	38	62	314	832	539	23	61	205	581	326
Lowndes.....	7,847	8,384	7,786	4,871	3,643	6,908	7,946	7,048	3,830	3,377
Pierce.....	2,921	3,889	2,962	2,480	1,700	2,292	3,465	2,444	1,659	953
Tattnall.....	6,817	7,338	5,275	6,090	3,838	5,404	6,505	4,224	4,512	3,106
Ware.....	662	632	367	572	188	657	585	825	356	132
Wayne.....	2,312	2,927	2,470	2,111	1,302	1,799	2,448	1,869	1,568	978
All other.....	835	828	1,039	2,411	350	477	670	832	1,642	253

SOUTH CAROLINA.

The state.....	13,016	14,573	14,534	13,247	8,071	9,649	10,743	11,292	9,061	6,656
Beaufort.....	1,538	2,143	1,898	1,914	1,089	825	1,289	1,026	857	687
Charleston.....	11,184	12,223	12,347	10,958	6,826	8,651	9,296	10,079	8,586	5,857
Colleton.....	260	170	226	330	138	149	128	153	218	97
All other.....	34	37	63	45	18	24	30	24	.....	15

TABLE 17.—QUANTITY OF COTTON, EXCLUSIVE OF LINTERS, GINNED FROM THE CROPS OF 1906 TO 1910, BY COUNTIES.

ALABAMA.

COUNTY.	TOTAL NUMBER OF BALES GINNED (COUNTING ROUND AS HALF BALES)—					NUMBER OF EQUIVALENT 500-POUND BALES—					NUMBER OF BALES GINNED TO DEC. 13 (COUNTING ROUND AS HALF BALES)—				
	1910	1909	1908	1907	1906	1910	1909	1908	1907	1906	1910	1909	1908	1907	1906
The state.....	1,193,379	1,040,137	1,332,003	1,113,093	1,241,133	1,194,250	1,024,350	1,345,713	1,112,698	1,261,522	1,128,470	987,254	1,263,953	961,739	1,136,544
Autauga.....	14,887	12,823	16,412	12,217	14,340	14,899	12,941	16,143	12,291	14,653	14,664	12,502	16,300	10,532	12,982
Baldwin.....	2,821	2,144	2,977	1,449	1,924	2,855	2,104	2,982	1,484	2,091	2,559	1,924	2,371	1,085	1,539
Barbour.....	25,759	24,888	28,533	29,734	25,383	24,270	24,186	28,213	29,644	25,144	25,164	24,494	27,733	27,404	24,164
Bibb.....	6,064	5,214	7,592	5,635	6,431	7,297	5,401	7,692	5,723	6,713	6,590	4,938	6,631	3,931	5,534
Blount.....	11,018	8,944	11,624	8,358	10,703	10,473	8,146	11,133	8,090	10,482	10,065	8,404	10,732	5,988	9,460
Bulloch.....	26,412	17,623	28,807	25,604	26,721	27,290	17,475	29,730	25,947	27,224	26,065	16,694	28,250	24,006	25,561
Butler.....	19,696	18,530	24,349	21,408	25,092	20,061	18,341	24,982	22,306	26,309	19,363	17,940	23,891	18,668	22,326
Calhoun.....	15,883	13,317	18,584	12,161	14,525	15,661	13,656	18,997	11,840	14,618	14,945	12,655	17,582	9,514	13,436
Chambers.....	33,493	27,168	32,263	26,918	30,435	33,788	26,619	32,670	26,197	30,100	31,936	25,081	29,147	22,860	28,018
Cherokee.....	14,946	13,696	18,672	14,363	14,043	14,211	12,981	18,153	13,745	14,023	13,093	12,742	16,945	11,348	12,612
Chilton.....	14,239	10,872	14,347	11,041	12,992	14,037	9,891	14,281	10,970	13,184	13,859	10,078	13,632	9,629	12,202
Choctaw.....	11,673	10,745	14,827	12,774	15,476	11,855	10,771	14,670	12,769	15,522	10,775	9,555	13,026	10,475	13,143
Clarke.....	15,888	15,049	21,794	18,988	21,803	16,501	15,404	22,600	19,542	22,601	14,056	13,910	18,900	15,776	17,038
Clay.....	15,437	12,812	15,453	10,211	12,587	14,542	12,320	14,745	9,621	12,131	14,493	11,560	14,618	8,631	11,479
Cleburne.....	6,280	6,092	8,274	5,429	6,543	5,577	5,323	7,657	4,846	5,969	5,707	5,522	7,576	4,402	5,531
Coffee.....	25,104	22,639	25,830	22,913	24,698	24,245	21,403	24,733	22,079	23,937	24,414	21,951	25,357	20,631	23,516
Colbert.....	11,614	9,130	13,189	11,137	11,979	11,758	9,020	13,780	11,464	12,481	10,700	9,021	12,128	9,270	10,698
Conocochee.....	12,680	10,123	14,526	12,517	12,319	12,161	10,991	14,706	12,742	12,752	11,319	9,280	13,430	11,461	11,578
Coosa.....	12,820	11,069	12,655	10,333	12,322	11,884	10,385	12,083	9,775	11,819	12,245	10,209	12,056	8,240	11,305
Covington.....	16,194	13,673	14,986	12,863	14,774	15,221	12,737	14,227	12,374	14,284	15,695	13,098	14,304	11,565	13,337

TABLE 17.—QUANTITY OF COTTON, EXCLUSIVE OF LINTERS, GINNED FROM THE CROPS OF 1906 TO 1910, BY COUNTIES—Continued.

ALABAMA—Continued.

COUNTY.	TOTAL NUMBER OF BALES GINNED (COUNTING ROUND AS HALF BALES)—					NUMBER OF EQUIVALENT 500-POUND BALES—					NUMBER OF BALES GINNED TO DEC. 13 (COUNTING ROUND AS HALF BALES)—				
	1910	1909	1908	1907	1906	1910	1909	1908	1907	1906	1910	1909	1908	1907	1906
Crenshaw.....	20,123	18,438	24,477	21,458	24,137	20,871	18,800	24,539	21,102	24,570	19,942	16,826	22,890	19,022	22,107
Cullman.....	18,807	15,510	20,925	15,647	16,792	18,551	15,001	20,381	14,050	16,819	17,030	14,881	19,463	12,483	15,626
Dale.....	20,787	21,966	20,204	21,960	19,022	19,303	19,302	19,270	20,085	19,783	20,272	20,862	19,735	19,081	18,711
Dallas.....	36,432	37,939	41,710	38,182	43,984	38,217	40,384	44,654	39,908	45,807	34,938	36,406	39,703	36,405	39,980
DeKalb.....	13,801	13,669	10,307	12,727	13,771	13,391	13,048	18,616	12,093	13,575	10,611	12,289	17,541	8,796	11,433
Elmore.....	24,168	18,382	25,054	22,452	26,904	23,728	17,165	24,589	22,232	26,551	23,357	17,957	24,031	19,843	24,417
Escambia.....	7,690	5,253	6,961	5,113	7,323	8,116	5,266	7,185	5,232	7,512	7,452	4,924	6,717	4,601	6,391
Etowah.....	13,351	13,203	14,434	11,079	11,945	12,504	9,344	14,099	10,587	11,069	11,851	8,933	13,232	7,782	10,660
Fayette.....	10,574	8,768	10,969	9,604	11,145	10,944	8,793	11,230	9,719	11,745	9,700	8,062	9,912	7,824	9,747
Franklin.....	9,753	8,216	9,946	6,903	9,190	9,693	7,820	10,051	6,668	9,526	8,876	7,766	8,874	5,349	7,846
Geneva.....	23,196	23,424	20,593	14,846	17,618	22,593	20,257	20,655	14,739	17,646	22,514	20,025	20,147	14,146	16,533
Greene.....	17,430	13,117	20,793	17,071	22,630	18,333	13,214	21,883	17,648	23,020	19,915	12,373	20,084	15,246	19,697
Hale.....	17,733	16,838	22,804	18,490	23,607	18,010	16,000	23,251	18,183	23,267	17,343	16,245	22,415	10,553	23,007
Henry.....	22,638	25,252	22,547	23,843	20,241	22,595	25,015	22,520	23,091	19,370	22,644	24,704	22,050	21,849	18,680
Houston.....	22,354	24,067	23,818	19,218	19,878	22,695	23,873	24,161	19,249	19,773	21,426	23,665	23,023	17,857	18,604
Jackson.....	8,840	6,484	11,452	7,900	8,813	8,102	8,565	11,816	8,162	9,133	7,267	8,163	9,402	5,515	7,412
Jefferson.....	6,937	4,995	7,176	3,692	6,679	6,000	4,901	7,251	3,669	6,778	5,222	4,480	6,240	2,489	5,329
Lamar.....	13,659	10,404	13,749	12,684	13,366	13,800	10,281	13,067	12,637	13,703	12,743	9,844	12,193	10,623	11,923
Lauderdale.....	17,304	13,019	18,158	14,390	16,067	17,466	13,087	19,287	14,535	15,491	15,754	12,715	17,103	11,617	13,277
Lawrence.....	14,673	12,903	17,026	14,821	15,141	14,631	13,178	17,789	15,642	15,971	12,771	12,338	15,719	11,455	12,127
Lee.....	29,268	24,237	27,502	24,099	24,013	29,373	24,455	27,997	23,836	25,232	28,532	23,270	27,056	21,025	23,885
Limestone.....	17,340	13,938	18,264	13,642	14,827	18,325	14,515	19,297	14,256	15,773	15,300	13,609	17,812	10,297	23,885
Lowndes.....	30,732	24,637	31,413	32,574	37,640	31,550	24,566	34,689	33,422	30,174	29,976	23,056	32,528	28,880	35,047
Macon.....	26,832	20,651	30,810	25,673	26,833	26,585	20,668	31,519	25,203	26,727	26,352	19,936	30,010	23,078	25,291
Madison.....	23,503	19,530	28,805	21,035	23,053	24,349	19,911	29,748	22,041	24,556	21,209	18,903	26,674	17,184	20,683
Marengo.....	28,571	27,874	34,663	30,772	39,678	28,874	27,068	35,433	31,300	40,587	28,012	26,424	33,405	27,830	37,619
Marion.....	10,217	8,443	9,481	8,742	10,190	10,334	8,293	9,564	8,789	10,710	9,244	8,018	8,853	7,208	8,739
Marshall.....	19,238	16,843	23,883	17,514	18,875	18,191	15,724	23,244	16,905	18,055	16,263	15,397	21,057	12,254	16,875
Mobile.....	879	502	620	204	183	889	500	500	199	184	704	277	383	42	42
Monroe.....	21,661	19,132	26,307	23,146	22,470	23,095	19,667	27,601	24,021	23,571	20,494	18,342	25,301	21,453	20,529
Montgomery.....	38,300	34,360	48,326	40,161	45,570	39,894	35,195	50,134	40,722	47,073	37,299	32,369	47,101	36,482	43,098
Morgan.....	16,784	13,075	17,893	14,034	15,820	17,445	13,845	18,333	13,883	16,500	14,535	12,864	16,265	10,663	14,141
Perry.....	23,043	20,050	33,817	26,524	31,243	25,060	29,713	35,592	27,547	33,233	22,087	28,965	33,247	24,729	26,637
Pike.....	10,127	13,232	21,747	21,682	21,634	19,674	12,775	22,021	21,977	21,738	18,042	12,353	19,575	18,248	19,131
Plato.....	32,236	28,307	35,969	32,415	34,146	33,132	28,781	36,746	32,635	34,533	32,057	28,001	35,637	30,837	33,477
Randolph.....	17,863	15,416	18,617	15,268	17,695	16,494	13,693	17,682	14,353	16,307	16,523	13,868	17,341	12,797	15,806
Russell.....	27,626	20,492	26,513	23,760	22,828	28,234	19,945	26,471	23,575	22,737	25,901	19,400	25,911	21,397	21,468
St. Clair.....	8,789	6,957	9,247	5,820	6,582	8,708	6,691	9,204	5,724	8,937	8,282	6,277	8,573	4,055	7,534
Shelby.....	10,570	8,541	11,020	7,406	10,708	10,819	8,543	11,734	7,319	10,918	10,225	7,784	11,175	5,387	9,559
Sumter.....	19,077	15,658	23,140	19,066	23,880	19,610	15,110	23,395	18,950	24,339	19,058	14,711	21,022	17,111	21,378
Talladega.....	29,242	22,685	29,626	21,364	26,324	26,324	22,298	29,285	20,843	27,762	28,364	21,171	28,088	17,070	26,029
Tallapoosa.....	28,511	24,999	29,975	25,865	29,000	27,310	23,699	29,495	24,810	27,810	27,793	23,426	28,893	22,139	27,086
Tuscaloosa.....	19,860	16,623	25,521	19,149	24,864	20,634	10,697	26,550	19,064	25,740	18,547	15,406	23,928	16,611	22,659
Walker.....	5,802	4,567	5,540	3,908	5,405	5,610	4,434	5,602	3,772	5,494	5,296	4,307	4,928	3,096	4,492
Washington.....	3,568	3,205	4,740	3,282	3,083	3,755	3,003	4,780	3,343	3,170	3,236	2,833	4,120	2,725	2,624
Wilcox.....	25,069	27,099	31,990	32,609	34,389	25,280	27,199	32,625	33,709	35,687	24,542	26,511	31,127	28,038	32,930
Winston.....	6,323	4,460	5,852	4,765	5,357	4,985	4,102	5,710	4,625	5,465	4,760	4,308	5,477	3,996	4,718

ARKANSAS.

The state.	708,156	697,603	696,033	751,851	894,268	821,233	713,463	1,032,920	774,721	941,177	676,259	642,322	847,312	572,418	673,030
Arkansas.....	4,924	3,570	7,081	5,269	7,313	5,078	3,592	7,908	5,287	7,752	4,107	3,323	6,910	4,565	4,967
Ashley.....	12,823	14,605	22,008	23,328	25,250	13,077	15,633	23,144	23,352	20,706	12,543	13,837	19,082	16,158	18,207
Baxter.....	3,641	3,479	4,957	3,029	3,780	3,073	3,607	6,134	3,120	3,903	2,544	3,334	4,251	2,472	2,672
Boone.....	883	679	932	593	692	613	729	950	398	746	632	611	709	259	434
Bradley.....	3,879	3,615	5,407	4,337	5,237	3,998	3,537	6,468	4,301	5,484	3,743	3,529	4,578	3,554	4,344
Calhoun.....	3,041	3,667	5,555	4,568	5,076	3,996	3,613	5,006	4,615	5,236	3,581	3,464	4,647	3,785	4,564
Chicot.....	23,354	21,949	27,792	28,240	25,968	20,391	22,875	23,406	26,961	26,403	16,192	19,775	20,977	12,920	13,660
Clark.....	9,467	7,210	9,877	8,737	10,627	9,417	7,643	10,092	8,885	9,966	6,281	7,040	8,792	7,215	9,652
Clay.....	12,877	11,693	15,118	9,689	12,117	13,681	12,241	15,699	10,291	12,541	10,392	11,087	13,217	6,638	8,260
Cleburne.....	4,274	2,828	5,004	3,011	4,119	4,388	2,917	5,315	3,110	4,325	3,469	2,663	4,274	2,630	3,323
Cleveland.....	5,585	5,051	8,671	6,358	7,930	5,745	5,695	8,699	6,276	8,036	5,574	5,735	7,604	5,341	6,035
Columbia.....	12,384	15,504	17,747	17,243	22,934	12,370	15,541	17,853	17,075	23,333	12,075	15,149	16,877	14,214	21,293
Conway.....	14,592	14,827	21,256	14,402	20,418	15,495	14,788	21,672	14,604	21,635	12,554	14,678	18,578	12,084	16,509
Craighead.....	13,657	9,843	13,984	7,667	11,937	13,899	10,455	14,722	7,858	12,777	10,067	9,427	11,857	5,250	7,380
Crawford.....	17,683	11,243	14,097	14,728	19,650	17,816	11,490	14,475	15,155	17,489	15,366	10,711	11,860	12,902	13,330
Crittenden.....	36,307	29,130	32,065	27,545	24,074	38,513	30,895	33,701	28,411	25,759	28,422	24,240	26,772	17,553	16,005
Cross.....	7,010	7,019	10,460	8,245	9,489	7,545	7,481	11,044	8,641	10,220	6,039	6,658	8,914	6,087	6,366
Dallas.....	4,781	3,884	5,404	3,897	4,717	4,766	5,769	5,426	3,959	4,812	4,513	3,684	4,529	2,932	4,017
Desha.....	14,114	11,921	12,125	12,014	13,162	14,179	12,179	12,253	12,194	15,203	10,704	10,381	10,058	8,570	8,392
Drew.....	12,232	12,606	19,983	14,595	19,284	12,132	12,530	20,119	14,697	20,040	11,252	11,795	17,177	11,253	13,071
Faulkner.....	19,539	14,630													

TABLE 17.—QUANTITY OF COTTON, EXCLUSIVE OF LINTERS, GINNED FROM THE CROPS OF 1906 TO 1910, BY COUNTIES—Continued.

ARKANSAS—Continued.

COUNTY.	TOTAL NUMBER OF BALES GINNED (COUNTING ROUND AS HALF BALES)—					NUMBER OF EQUIVALENT 500-POUND BALES—					NUMBER OF BALES GINNED TO DEC. 13 (COUNTING ROUND AS HALF BALES)—				
	1910	1909	1908	1907	1906	1910	1909	1908	1907	1906	1910	1909	1908	1907	1906
Izard.....	4,547	4,815	6,605	3,512	5,101	4,712	4,797	6,824	3,517	5,334	3,077	4,735	6,017	2,984	4,196
Jackson.....	27,101	23,228	34,882	17,395	24,419	27,511	23,539	35,901	17,348	25,845	21,508	22,545	26,612	13,599	16,190
Jefferson.....	30,929	35,305	45,834	35,203	40,129	30,850	35,503	46,631	34,823	40,827	24,585	28,930	35,774	21,482	26,045
Johnson.....	13,830	8,832	13,101	9,207	9,846	14,126	8,968	13,337	9,402	10,074	11,932	8,539	11,065	8,056	8,011
Lafayette.....	6,882	4,271	4,700	8,284	13,006	7,082	4,312	4,822	8,420	13,578	6,773	4,089	4,548	7,076	11,042
Lawrence.....	16,165	14,887	21,281	12,008	14,346	16,954	14,827	22,473	13,450	15,060	11,855	14,849	17,727	9,394	9,604
Lee.....	17,540	20,400	32,282	21,411	22,016	19,347	22,371	34,890	23,008	26,013	13,519	17,270	27,474	16,468	15,236
Lincoln.....	13,089	12,880	16,495	15,801	18,310	13,322	13,042	16,719	15,403	18,374	10,601	10,399	13,116	10,647	12,196
Little River.....	9,526	5,278	6,438	10,602	15,301	9,450	5,392	6,089	11,030	16,358	9,496	4,936	6,144	8,903	13,548
Logan.....	21,855	13,858	23,343	16,900	18,736	22,331	14,512	24,632	17,549	19,769	20,168	13,516	20,685	15,070	15,934
Lonoke.....	25,810	26,893	46,246	27,540	31,651	26,342	27,189	47,832	28,349	33,924	20,652	24,288	37,904	22,332	22,763
Marion.....	2,651	2,065	2,602	1,551	1,860	2,629	2,129	2,800	1,609	1,961	1,751	1,046	1,918	1,107	1,359
Miller.....	6,680	3,977	3,328	5,993	11,432	6,768	3,948	3,434	6,127	12,020	6,273	3,749	3,026	4,798	9,072
Mississippi.....	41,237	34,702	26,747	28,057	29,855	46,146	37,034	39,062	29,533	31,169	31,340	30,030	30,791	18,582	20,218
Monroe.....	11,266	12,799	25,095	15,121	17,524	12,242	13,782	27,128	16,464	19,682	9,699	11,796	22,096	12,026	12,527
Montgomery.....	4,845	3,017	4,313	3,655	4,156	4,704	2,812	4,298	3,697	4,470	4,565	2,967	3,860	2,832	3,685
Neada.....	8,787	7,554	11,374	10,895	15,003	8,822	7,430	11,515	10,892	15,432	7,864	7,450	9,907	8,436	13,069
Newton.....	458	486	1605	851	533	477	489	623	382	581	285	394	589	227	373
Ouachita.....	6,646	6,532	9,724	8,482	10,145	6,263	6,542	9,514	8,395	10,271	6,402	6,167	8,939	6,239	9,243
Perry.....	6,541	4,322	6,493	3,582	5,948	6,614	4,355	6,763	3,595	6,230	5,658	4,080	5,853	3,018	5,027
Phillips.....	24,655	19,062	36,032	25,219	23,776	26,307	20,357	37,718	28,038	25,545	19,924	17,865	31,167	18,510	16,600
Pike.....	2,632	1,980	3,930	4,411	4,468	2,685	1,918	4,065	4,548	4,746	2,473	1,932	3,455	3,593	3,883
Poinsett.....	7,103	4,905	5,638	3,359	4,248	7,630	4,909	5,941	3,401	4,603	5,652	4,385	4,636	2,577	8,032
Polk.....	3,666	2,068	3,231	2,547	2,702	3,634	1,916	3,221	2,525	2,731	3,485	1,994	3,037	2,066	2,326
Pope.....	10,251	16,495	23,284	13,930	18,147	19,374	16,641	24,420	14,333	19,114	16,127	15,820	19,942	12,062	14,910
Prarie.....	5,781	6,074	9,763	7,757	9,392	6,017	6,214	10,261	7,993	10,115	4,650	5,588	8,691	6,132	6,653
Pulaski.....	13,222	17,534	23,279	15,580	18,142	13,669	18,283	24,192	16,222	19,220	10,254	14,595	16,645	11,025	13,367
Randolph.....	9,174	7,703	12,231	6,051	6,959	9,268	7,720	12,542	6,339	7,829	7,548	7,588	10,671	4,185	3,941
St. Francis.....	19,698	20,491	27,483	22,564	20,310	20,809	21,118	28,878	23,011	21,963	16,543	19,233	24,418	17,398	14,738
Saline.....	5,320	3,523	5,231	3,722	4,798	5,175	3,819	5,361	3,566	4,836	4,495	3,239	4,878	2,859	3,500
Scott.....	9,845	5,832	7,134	4,969	5,984	9,784	5,749	7,352	5,004	6,153	9,520	5,740	6,534	4,186	5,110
Searay.....	2,096	1,796	2,099	1,376	2,101	2,156	1,854	2,233	1,421	2,238	1,645	1,696	1,691	1,140	1,541
Sebastian.....	13,719	7,748	11,547	9,364	10,811	13,768	7,914	12,233	9,557	11,432	13,031	7,557	10,263	8,365	9,828
Sewier.....	5,962	4,143	7,212	7,313	9,512	6,063	4,143	7,344	7,543	9,967	5,813	4,101	6,720	6,413	8,704
Sharp.....	4,331	3,787	5,230	2,706	4,809	4,367	3,774	5,358	2,719	4,475	3,573	3,681	4,516	2,259	3,457
Stone.....	1,161	1,300	2,237	1,175	2,084	1,141	1,307	2,233	1,161	2,161	777	1,275	1,891	922	1,543
Union.....	5,780	7,037	14,351	16,137	17,812	5,727	7,589	14,454	15,950	18,339	5,245	6,801	11,967	8,882	12,161
Van Buren.....	4,821	3,272	6,522	4,286	4,933	5,111	3,415	6,924	4,436	5,312	3,923	3,125	5,524	3,551	4,023
White.....	15,818	11,511	18,685	13,292	16,002	16,150	11,675	19,317	13,309	16,773	13,501	11,140	16,356	11,705	11,404
Woodruff.....	15,701	20,224	29,913	23,663	23,196	16,787	21,240	32,064	24,965	25,200	12,562	19,026	24,793	17,659	16,093
Yell.....	21,293	17,265	22,860	17,723	19,766	21,407	17,643	23,941	18,900	20,974	18,621	16,609	19,865	14,883	16,165
All other.....					0					6					

FLORIDA.

The state.	67,172	61,877	70,598	56,668	61,473	58,949	54,011	62,089	49,794	55,945	60,082	58,556	64,131	45,685	55,916
Alachua.....	7,027	5,695	7,749	7,184	5,579	5,016	8,949	5,671	5,295	4,050	6,391	5,288	7,079	6,133	5,254
Baker.....	1,075	809	936	1,219	499	879	694	761	983	367	698	840	851	785	421
Bradford.....	3,251	3,302	3,335	3,412	1,086	2,324	2,402	2,485	2,711	1,437	2,022	3,231	3,116	2,780	1,833
Columbia.....	2,577	2,432	3,195	2,684	2,207	2,096	1,873	2,597	2,109	1,805	2,354	2,364	2,945	2,200	2,181
Escambia.....	1,574	1,122	1,579	1,097	779	1,023	1,085	1,622	1,101	848	1,517	901	1,425	556	700
Gadsden.....	1,358	586	455	315	1,164	1,349	697	463	300	1,080	321	348	326	160	885
Hamilton.....	3,515	3,756	4,412	3,063	2,836	2,669	2,583	3,216	2,333	2,198	2,963	3,495	3,688	2,266	2,613
Holmes.....	2,047	1,934	2,003	1,737	2,307	1,987	1,830	1,975	1,697	2,318	1,841	1,523	1,611	1,416	1,937
Jackson.....	15,522	14,768	14,692	12,701	15,841	15,594	15,135	14,903	13,227	16,424	15,091	14,545	13,888	11,995	14,933
Jefferson.....	4,540	4,872	5,480	4,140	5,496	4,002	4,575	5,434	3,822	5,167	4,255	4,745	5,404	3,564	5,216
Lafayette.....	814	638	892	688	727	638	608	719	589	614	756	608	839	560	681
Leon.....	5,516	4,475	4,464	3,408	5,055	5,155	4,129	4,336	3,105	4,662	5,023	4,362	4,143	2,891	4,726
Madison.....	7,858	7,836	9,537	6,086	7,114	6,815	6,345	7,694	4,821	5,932	6,870	7,546	8,614	4,832	6,115
Santa Rosa.....	2,741	2,030	2,357	1,112	1,707	2,621	1,903	2,278	1,092	1,759	2,266	1,896	2,100	511	1,600
Suwanee.....	3,976	4,296	5,463	4,230	3,717	3,117	3,396	4,353	3,423	3,015	3,392	4,188	4,783	3,037	3,309
Taylor.....	323	217	435	448	329	278	162	356	342	265	294	190	323	270	308
Walton.....	1,797	1,358	1,541	1,528	1,809	1,570	1,263	1,391	1,439	1,814	1,523	1,027	1,191	863	1,308
Washington.....	967	1,094	1,260	962	1,436	925	1,083	1,146	959	1,459	904	983	1,173	698	1,308
All other.....	694	558	813	664	795	621	499	712	446	706	501	468	617	229	588

GEORGIA.

The state.	1,812,178	1,850,125	1,977,050	1,860,323	1,632,793	1,767,202	1,804,014	1,931,179	1,815,834	1,592,572	1,706,816	1,766,070	1,867,963	1,632,403	1,514,637
Appling.....	5,373	5,596	3,878	3,358	2,151	4,436	4,297	3,121	2,901	1,707	4,672	5,351	3,500	2,491	1,470
Baker.....	6,479	7,995	7,342	6,497	5,897	5,739	7,020	6,543	5,588	6,394	7,765	6,956	5,933	5,211	5,211
Baldwin.....	10,843	10,798	12,126	12,016	10,299	10,730	10,768	11,862	12,033	10,255	10,457	10,456	11,721	10,778	9,987
Banks.....	11,369	10,303	13,632	12,713	9,677	10,275	9,279	13,089	11,241	8,653	10,160	9,523	12,458	11,459	8,465
Bartow.....	18,833	15,048	22,334	18,397	17,747	18,852	14,082	21,852	17,669	17,491	17,014	13,891	20,902	15,586	15,696
Ben Hill.....	7,351	6,394	5,232	4,327	6,823	6,372	6,139	5,010	4,184	4,184	7,173	6,664	5,915	4,776	3,914
Berrien.....	12,652	14,250	12,847	10,855	11,137	10,807	12,520	11,271	9,283	9,794	11,625	13,691	11,433	8,943	10,227
Bibb.....	11,076	9,819	9,418	9,887	9,983	11,162	9,870	9,768	9,359	9,359	10,580	9,202	9,075	9,114	9

TABLE 17.—QUANTITY OF COTTON, EXCLUSIVE OF LINTERS, GINNED FROM THE CROPS OF 1906 TO 1910, BY COUNTIES—Continued.

GEORGIA—Continued.

COUNTY.	TOTAL NUMBER OF BALES GINNED (COUNTING ROUND AS HALF BALES)—					NUMBER OF EQUIVALENT 500-POUND BALES—					NUMBER OF BALES GINNED TO DEC. 13 (COUNTING ROUND AS HALF BALES)—				
	1910	1909	1908	1907	1906	1910	1909	1908	1907	1906	1910	1909	1908	1907	1906
Bulloch.....	31,153	29,337	22,643	19,084	17,195	28,248	26,745	20,402	16,960	15,375	26,598	27,447	20,752	15,125	16,035
Burke.....	38,949	40,285	35,970	38,211	31,197	40,406	43,443	37,013	39,946	31,740	35,495	38,758	34,506	33,178	29,547
Butts.....	12,664	13,610	14,002	14,731	12,437	13,087	13,991	14,324	14,822	12,514	12,134	13,216	13,616	13,380	11,851
Calhoun.....	13,683	13,543	14,865	14,052	10,130	13,456	13,350	15,826	14,341	10,168	13,128	13,425	14,429	12,547	9,507
Campbell.....	11,777	10,499	13,904	12,302	12,199	11,699	10,249	14,179	12,100	12,140	10,846	9,845	12,042	10,012	11,101
Carroll.....	32,781	28,375	36,507	31,282	30,821	30,218	25,855	34,141	28,955	29,255	30,590	25,560	34,428	26,494	26,368
Catoosa.....	993	867	1,073	1,436	1,183	873	696	938	1,236	1,131	808	403	876	423	231
Chattahoochee.....	6,006	5,323	6,826	6,137	6,343	5,993	5,225	6,806	6,013	6,288	5,601	5,132	6,564	5,162	5,810
Chattooga.....	9,092	8,132	11,196	9,460	9,847	8,492	7,524	10,634	8,989	7,724	7,745	7,754	10,005	7,426	6,280
Cherokee.....	9,538	9,439	11,815	9,899	9,553	8,746	9,825	10,381	8,661	8,440	8,617	8,705	11,047	7,980	8,263
Clarke.....	11,108	9,350	14,285	14,694	8,547	10,648	8,843	13,831	14,168	8,253	10,291	8,685	13,266	12,802	7,761
Clay.....	10,307	12,218	11,781	11,781	11,781	10,598	12,734	13,322	11,899	8,540	10,287	12,196	12,806	10,604	8,146
Clayton.....	11,532	10,444	11,611	12,885	10,623	11,384	10,262	11,307	12,614	10,568	10,297	9,752	11,050	11,569	10,082
Clinch.....	930	1,206	1,261	934	624	785	889	1,006	737	618	718	1,129	1,020	651	441
Cobb.....	18,418	17,259	18,965	16,964	15,518	16,554	15,678	16,890	15,040	14,007	16,266	16,035	17,624	14,021	13,716
Coffee.....	12,315	11,967	9,685	6,533	6,369	10,879	10,476	8,257	5,439	5,366	11,014	11,127	8,369	5,133	5,379
Colquitt.....	13,458	12,092	10,466	7,128	7,266	12,887	11,350	10,079	6,653	6,941	12,962	11,862	9,959	6,384	6,739
Columbia.....	12,474	15,073	13,462	16,765	12,777	12,721	15,654	13,852	10,785	11,752	12,225	14,297	12,693	14,601	12,097
Coweta.....	32,357	27,414	34,973	29,359	30,777	32,022	26,915	34,987	29,459	31,183	30,551	29,551	33,116	24,776	28,145
Crawford.....	5,966	5,908	5,960	7,004	6,008	6,017	5,908	6,175	7,038	6,129	5,830	5,054	5,938	6,401	5,937
Crisp.....	14,834	17,520	16,342	13,922	11,127	15,068	17,881	16,590	13,022	11,163	14,391	17,362	15,997	13,072	10,877
Dawson.....	1,641	2,085	2,325	1,834	1,602	1,339	1,765	1,956	1,416	1,301	1,301	1,816	2,095	1,476	1,295
Decatur.....	11,978	10,775	10,608	7,708	9,629	11,961	10,689	11,031	7,748	9,410	11,120	10,457	9,583	6,524	8,762
DeKalb.....	10,087	9,637	11,905	10,474	8,995	9,655	9,026	11,053	9,483	8,364	8,622	9,072	11,057	8,915	8,312
Dodge.....	23,059	27,539	23,291	21,632	19,113	23,506	28,354	23,845	22,091	19,579	22,589	26,550	22,391	19,284	18,248
Dooley.....	27,066	33,532	30,202	25,941	23,530	27,196	34,149	30,770	26,394	23,935	26,416	32,744	29,516	22,694	22,910
Dougherty.....	13,050	15,073	16,240	14,239	12,750	13,118	15,154	16,434	14,346	12,041	12,847	14,739	15,504	12,823	11,949
Douglas.....	8,302	7,693	9,833	9,350	8,314	7,573	6,991	8,932	8,432	7,654	7,471	6,820	9,066	7,858	7,287
Early.....	14,717	14,152	15,219	14,844	12,999	15,353	14,925	15,987	15,663	13,594	14,385	13,869	14,886	13,126	12,049
Echols.....	417	516	326	358	301	342	405	276	284	240	375	498	316	249	289
Effingham.....	3,566	3,251	2,491	2,139	1,633	3,420	3,165	2,462	2,011	1,548	3,143	2,602	2,346	1,669	1,478
Elbert.....	18,417	18,100	20,235	20,871	17,506	16,859	17,010	18,410	18,788	15,920	18,015	17,391	19,105	19,384	16,681
Emanuel.....	27,729	24,509	24,884	21,358	18,485	27,240	24,411	24,416	20,805	17,946	25,079	23,753	23,514	18,748	16,960
Fayette.....	13,476	13,037	13,577	13,177	11,473	13,511	13,123	14,030	13,211	11,542	12,805	12,585	12,781	11,365	10,870
Floyd.....	16,018	13,242	17,787	14,787	13,086	15,249	12,090	16,752	14,027	13,343	14,624	12,113	16,344	12,491	12,657
Forsyth.....	10,186	10,520	13,126	11,947	10,541	8,776	8,803	11,317	10,279	9,782	8,345	9,560	11,690	9,640	8,784
Franklin.....	22,276	19,431	24,549	23,496	19,107	21,040	18,145	21,824	21,076	17,363	21,393	18,442	22,859	21,291	17,595
Fulton.....	2,612	2,332	2,566	2,286	2,510	2,500	2,197	2,449	2,135	2,345	2,303	2,138	2,278	1,628	2,264
Glascoc.....	2,744	4,421	4,036	4,043	3,578	2,876	4,503	4,149	4,833	3,668	2,497	4,230	3,637	3,935	3,411
Gordon.....	10,637	9,447	12,072	9,922	8,904	10,204	9,345	11,698	10,111	8,801	9,075	8,893	11,172	8,023	8,271
Grady.....	6,002	5,007	7,215	5,084	7,716	5,003	4,810	6,599	4,685	7,323	5,542	5,431	6,374	4,439	6,839
Greene.....	14,204	16,123	18,054	18,117	14,315	14,295	16,304	19,404	18,650	14,070	13,862	15,337	17,880	16,543	13,789
Gwinnett.....	21,763	22,472	28,415	26,418	22,113	19,689	20,562	25,852	24,093	20,415	19,467	21,041	26,405	23,656	20,603
Habersham.....	1,206	847	1,319	725	633	1,054	774	1,214	648	563	1,019	793	1,224	618	621
Hall.....	16,233	14,605	19,877	17,040	15,856	13,082	12,493	17,078	14,750	13,094	12,902	13,191	17,907	14,506	13,337
Hancock.....	14,663	16,698	17,409	17,931	13,931	14,678	16,908	17,666	18,157	13,870	14,453	16,432	16,805	16,667	13,779
Haralson.....	10,040	8,138	11,920	8,081	7,912	8,980	7,150	8,006	7,133	9,320	7,463	7,463	11,094	7,621	6,869
Harris.....	22,990	19,637	22,621	20,661	24,253	22,902	19,694	22,236	20,487	24,122	22,440	19,106	22,012	18,035	23,098
Hart.....	18,211	15,606	21,119	20,461	16,874	17,298	14,761	19,707	19,041	15,652	17,619	15,210	20,157	19,264	15,934
Heard.....	14,760	13,708	16,500	12,771	16,003	14,285	13,280	16,025	12,615	15,606	14,335	12,634	15,803	11,290	14,313
Henry.....	25,113	25,744	25,750	27,762	24,377	24,581	25,404	25,673	27,162	24,065	23,604	24,145	24,661	24,748	23,099
Houston.....	17,137	25,778	22,298	23,312	22,715	17,367	26,309	22,820	23,872	23,056	16,713	25,015	21,592	21,190	21,513
Irwin.....	13,099	12,605	11,041	9,065	9,332	12,191	11,501	10,400	8,477	8,856	12,568	11,986	10,414	7,909	8,284
Jackson.....	37,752	32,847	43,664	39,871	34,895	35,038	30,357	40,616	36,490	32,424	34,932	30,623	40,146	36,185	31,534
Jasper.....	20,997	24,610	24,921	23,432	21,032	22,895	25,117	25,001	22,727	21,478	20,428	23,007	23,292	20,690	10,072
Jeff Davis.....	2,797	2,205	1,609	1,214	1,008	2,613	2,082	1,436	1,118	884	2,712	2,036	1,559	1,163	951
Jefferson.....	21,575	27,109	22,512	27,118	21,069	21,886	27,057	22,116	27,275	20,745	20,819	26,450	21,304	23,856	20,453
Jenkins.....	16,643	13,251	13,914	14,040	11,273	16,903	13,002	13,990	13,994	11,047	14,922	12,621	13,400	12,180	10,758
Johnson.....	14,406	11,676	13,045	10,362	10,362	14,406	11,685	12,802	12,162	10,035	13,910	11,118	12,503	10,786	8,860
Jones.....	14,104	14,142	15,854	15,810	15,353	14,640	14,606	15,575	16,344	16,078	13,803	13,390	14,883	14,179	14,906
Laurens.....	38,400	38,852	36,642	39,372	31,743	38,392	39,031	36,393	38,955	31,508	37,233	38,184	35,063	33,163	30,254
Lee.....	11,972	16,373	14,312	13,080	11,471	11,579	15,572	14,123	12,756	11,471	11,887	15,049	13,794	11,886	10,712
Liberty.....	1,679	1,430	1,166	1,136	986	1,382	1,216	1,052	962	828	1,441	1,296	1,000	903	825
Lincoln.....	7,736	9,570	9,419	10,596	7,036	7,864	9,675	9,386	10,671	7,195	7,417	8,911	8,543	9,335	6,679
Lowndes.....	8,669	9,704	10,009	5,939	6,438	7,201	7,831	8,324	4,870	5,382	7,585	9,199	9,226	4,733	5,881
Lumpkin.....	550	631	619	524	376	442	509	509	426	334	453	572	579	446	308
McDuffie.....	8,133	10,946	10,240	12,293	9,084	8,193	11,456	10,510	12,448	9,353	7,709	10,509	9,888	10,876	8,734
Macon.....	11,873	17,112	15,010	14,406	14,934	11,707	16,794	14,656	14,397	15,059	11,499	16,726	14,716	12,819	14,183
Madison.....	20,798	17,469	24,553	23,796	19,657	19,855	15,974	22,755	21,792	18,159	19,516	16,727	22,530	22,343	17,400
Martin.....	7,129	7,831	8,561	8,099	6,455	7,052	7,720	8,508	7,011	6,220	6,970	7,732	8,464	7,236	6,296

TABLE 17.—QUANTITY OF COTTON, EXCLUSIVE OF LINTERS, GINNED FROM THE CROPS OF 1906 TO 1910, BY COUNTIES—Continued.

GEORGIA—Continued.

COUNTY.	TOTAL NUMBER OF BALES GINNED (COUNTING ROUND AS HALF BALES)—					NUMBER OF EQUIVALENT 500-POUND BALES—					NUMBER OF BALES GINNED TO DEC. 13 (COUNTING ROUND AS HALF BALES)—				
	1910	1909	1908	1907	1906	1910	1909	1908	1907	1906	1910	1909	1908	1907	1906
Montgomery...	17,187	16,881	14,512	13,471	11,328	17,204	16,011	14,021	13,419	11,502	16,679	16,245	13,207	11,356	9,817
Morgan.....	23,259	25,689	31,887	31,827	25,669	23,087	25,782	32,423	31,441	25,464	21,843	23,957	30,094	28,068	24,205
Murray.....	1,710	2,863	4,044	3,133	2,974	1,504	2,598	3,562	2,928	2,915	1,554	2,811	3,674	2,713	2,701
Muscogea....	6,916	5,907	7,210	6,687	7,489	6,717	5,752	7,151	6,337	7,124	6,745	5,798	7,082	5,790	7,197
Newton.....	19,793	20,026	25,040	25,806	22,013	20,074	20,184	25,361	25,902	21,995	18,303	18,611	23,737	22,912	21,012
Oconee.....	13,017	13,400	16,767	15,954	11,502	13,825	13,317	17,079	15,648	11,481	13,387	12,770	15,431	13,990	10,874
Oglethorpe...	18,723	18,018	25,547	26,646	20,365	18,206	19,221	24,552	26,428	19,916	17,483	18,675	22,957	23,315	17,226
Paulding....	9,573	9,252	13,306	12,152	10,672	8,212	8,282	12,169	11,066	9,846	8,740	8,570	12,526	10,633	9,403
Pickens.....	2,338	2,169	2,887	1,985	1,805	1,974	1,851	2,586	1,802	1,690	1,953	2,075	2,687	1,627	1,690
Pierce.....	3,538	4,440	3,507	2,782	2,198	2,731	3,292	2,810	2,189	1,688	2,810	3,066	2,950	1,894	1,309
Plke.....	21,282	19,419	20,552	20,080	19,292	21,290	19,372	20,240	20,040	19,458	20,714	18,905	19,708	18,126	18,512
Polk.....	13,341	10,212	15,703	11,297	11,700	12,306	9,428	14,767	10,559	11,237	12,322	9,560	10,747	9,240	10,205
Pulaski.....	21,190	27,840	26,902	25,330	22,455	21,610	20,037	27,634	26,161	23,265	20,867	27,320	26,381	22,659	21,931
Putnam.....	11,779	13,911	16,147	17,818	14,377	11,937	13,903	16,535	18,192	14,483	11,512	13,305	16,325	15,095	13,287
Quitman....	4,684	5,453	5,838	6,361	5,113	4,643	5,345	5,961	6,496	5,142	4,507	5,357	5,781	5,574	4,933
Randolph....	19,358	24,357	25,250	25,887	18,218	19,052	22,044	23,861	24,831	17,558	18,735	23,873	24,817	23,143	16,838
Richmond....	7,115	8,729	7,130	6,149	5,124	9,650	7,025	8,883	7,805	7,310	6,641	8,317	7,246	6,532	7,777
Rockdale....	6,810	7,151	9,080	9,079	7,237	6,571	6,861	8,895	9,030	7,056	6,008	6,678	8,341	8,007	6,803
Schley.....	5,997	6,594	7,029	6,835	5,879	6,026	6,593	7,067	6,879	6,006	5,895	6,543	6,736	6,066	5,734
Screven....	24,703	23,098	23,536	18,711	15,038	23,898	23,058	23,283	18,455	14,353	22,139	22,583	22,365	16,175	14,388
Spalding....	16,339	14,303	15,955	16,787	14,851	16,430	14,420	16,146	16,915	14,860	15,275	13,588	14,700	13,720	13,489
Stephens....	5,480	5,124	7,130	6,149	5,124	4,966	4,618	6,371	5,428	4,594	4,034	4,761	6,500	5,599	4,733
Stewart....	13,125	13,606	15,281	15,270	13,648	13,172	13,723	15,642	15,572	13,828	13,404	13,277	14,553	13,508	13,045
Sumter....	26,827	34,500	33,163	31,976	28,980	27,104	34,201	33,427	32,029	28,964	25,764	33,320	31,885	28,408	27,079
Talbot.....	10,615	10,130	11,084	10,438	11,026	10,687	9,984	11,026	10,390	11,039	10,467	9,925	10,863	9,301	10,428
Taliaferro...	7,512	8,876	10,831	9,726	7,464	7,520	8,887	10,967	9,959	7,506	7,386	8,504	10,465	9,121	7,310
Tattnall....	14,366	13,432	9,950	8,384	8,018	12,617	11,777	8,684	7,000	6,780	12,128	12,306	8,588	6,481	7,921
Taylor.....	10,012	9,517	8,994	8,262	7,725	10,062	9,641	9,237	8,224	7,909	9,041	9,175	8,678	7,572	7,489
Telfair....	12,429	12,733	11,368	9,963	8,331	12,305	12,425	10,808	9,716	8,169	11,758	12,092	10,585	8,462	7,167
Terrell....	27,290	34,749	35,489	34,054	27,583	26,777	34,172	35,120	34,122	27,572	27,023	34,502	34,909	31,476	27,039
Thomas.....	16,292	17,833	18,129	10,581	12,880	15,140	17,427	17,422	9,890	12,507	15,781	17,565	17,466	9,661	12,102
Tift.....	8,194	9,895	8,303	5,655	6,245	7,940	6,610	7,984	5,459	6,029	7,867	9,640	7,701	5,394	5,857
Toombs....	10,330	10,480	7,045	6,540	5,815	9,821	10,011	7,374	6,155	5,449	9,396	10,131	6,983	5,636	5,170
Troup.....	24,046	20,555	23,261	22,302	22,807	25,315	19,693	23,283	22,351	22,625	24,293	19,345	22,326	19,087	20,072
Turner....	12,858	11,956	10,030	8,031	6,348	12,871	12,049	10,264	8,140	6,199	12,471	11,049	9,785	7,278	6,004
Twiggs....	10,619	11,020	11,846	13,105	10,001	10,655	10,705	11,855	13,171	10,028	10,887	10,624	11,397	11,300	9,720
Upson.....	13,237	12,205	12,702	13,004	13,645	13,150	12,037	12,403	12,518	13,268	12,844	11,714	12,366	11,541	12,081
Walker....	4,361	4,334	5,984	4,432	5,194	4,022	4,124	5,594	4,043	4,823	3,846	4,121	5,475	3,530	4,711
Walton....	32,113	30,806	41,246	38,489	28,820	31,862	30,304	41,493	37,912	28,388	30,466	29,047	39,146	36,102	27,482
Ware.....	1,002	1,079	859	929	673	820	877	695	726	549	835	1,005	799	645	466
Warren....	8,869	11,049	12,007	13,435	8,676	9,100	12,327	12,535	14,050	8,808	8,623	11,420	11,591	12,098	8,223
Washington	24,171	28,522	29,112	29,933	25,509	24,338	28,944	29,089	30,340	25,802	23,264	27,673	28,241	26,142	24,042
Wayne....	3,115	3,666	3,155	2,527	1,921	2,376	2,732	2,376	1,939	1,525	2,415	3,129	2,468	1,878	1,455
Webster....	4,462	4,545	5,434	5,958	5,341	4,474	4,632	5,297	6,037	5,337	4,258	4,390	5,147	5,068	4,953
White.....	250	383	686	427	353	219	350	590	392	330	203	327	500	216	314
Whitfield..	4,169	4,465	5,918	4,626	4,924	3,948	3,894	5,271	4,115	4,474	3,358	4,249	5,392	3,696	4,378
Wilcox....	16,743	17,192	13,596	12,625	9,016	16,599	17,466	13,808	12,721	9,220	16,586	16,317	12,031	11,055	8,407
Wilkes....	20,715	27,111	27,513	29,539	21,593	20,928	27,626	27,985	30,053	21,835	19,833	26,014	25,516	26,155	20,434
Wildson....	5,977	7,498	8,430	10,294	7,906	5,857	7,356	8,304	10,138	7,638	6,774	7,187	7,797	6,826	7,097
Worth.....	17,905	19,899	17,935	16,170	12,825	18,115	19,285	17,932	16,099	12,653	17,242	19,101	16,717	14,769	12,315
All other..	675	359	371	397	206	592	321	318	353	189	423	108	158	150	151

LOUISIANA.

The state..	246,788	258,459	466,543	662,032	955,473	245,648	253,412	470,136	675,428	987,779	233,347	248,643	435,603	501,612	764,850
Acadia.....	3,889	3,958	6,103	9,701	10,981	3,747	3,729	5,825	10,077	10,661	3,815	3,936	5,441	6,551	8,026
Ascension..	542	4,015	6,693	8,834	10,415	483	3,936	6,733	9,201	10,788	517	3,950	6,393	6,221	9,248
Avoyelles..	9,634	8,164	11,054	36,019	48,003	9,647	8,112	11,227	38,800	52,554	9,548	8,091	11,040	30,755	41,041
Bienville..	7,599	6,953	8,376	10,896	22,347	7,833	6,696	8,354	10,682	22,950	7,615	6,660	7,823	9,249	18,919
Bossier....	13,020	10,211	8,780	15,626	45,671	13,429	9,753	8,943	16,303	49,002	12,443	9,670	8,129	12,758	37,917
Caddo.....	20,774	17,635	15,609	17,220	53,702	21,037	18,229	16,228	17,680	56,419	19,814	16,028	14,018	14,056	41,280
Calcasieu..	321	293	263	276	1,196	292	285	252	202	1,143	279	280	280	26	759
Caldwell..	1,873	825	2,502	6,111	7,356	1,700	772	2,326	5,787	7,094	1,716	707	2,087	3,571	4,642
Cameron..	1,117	1,970	1,851	1,833	2,196	1,148	1,908	1,811	1,811	2,216	856	1,788	1,147	837	148
Catahoula..	3,608	1,630	4,700	14,026	19,193	8,600	1,648	4,624	14,857	19,869	3,484	1,298	4,157	10,308	14,409
Claborne..	14,522	11,700	15,664	24,835	33,940	14,386	11,524	15,561	24,259	34,417	14,326	11,493	15,147	20,793	29,936
Concordia..	4,771	4,438	12,026												

TABLE 17.—QUANTITY OF COTTON, EXCLUSIVE OF LINTERS, GINNED FROM THE CROPS OF 1906 TO 1910, BY COUNTIES—Continued.

LOUISIANA—Continued.

COUNTY.	TOTAL NUMBER OF BALES GINNED (COUNTING ROUND AS HALF BALES)—					NUMBER OF EQUIVALENT 500-POUND BALES—					NUMBER OF BALES GINNED TO DEC. 13 (COUNTING ROUND AS HALF BALES)—				
	1910	1909	1908	1907	1906	1910	1909	1908	1907	1906	1910	1909	1908	1907	1906
Jackson.....	2,170	1,443	3,483	7,010	10,417	2,087	1,360	3,394	6,738	10,444	2,016	1,333	2,978	5,738	8,777
Lafayette.....	6,562	6,075	12,993	21,942	28,193	6,420	5,898	12,902	22,591	28,363	6,553	6,002	12,461	14,145	24,422
La Salle.....	229	21				228	21				174	3			
Lincoln.....	4,341	3,400	7,952	13,820	17,852	4,306	3,321	7,922	13,734	18,105	4,182	3,253	7,090	11,250	14,654
Livingston.....	278	2,548	4,150	5,098	5,844	258	2,365	3,999	4,930	5,500	238	2,500	3,572	3,890	5,074
Madison.....	8,739	8,876	15,427	15,378	19,547	9,115	9,316	15,711	16,021	21,240	7,158	7,756	12,424	9,005	11,507
Morehouse.....	10,540	12,186	19,718	24,208	27,404	10,205	11,862	19,284	24,106	27,920	10,056	11,838	17,404	16,223	17,138
Natchitoches.....	13,425	12,444	11,478	11,758	30,502	13,133	12,190	11,583	11,891	31,116	11,542	12,211	10,829	10,965	26,958
Ouachita.....	0,121	5,168	11,773	17,126	20,800	5,842	5,141	11,662	17,030	21,159	5,903	4,941	10,814	12,182	15,398
Pointe Coupee.....	1,163	3,377	28,814	41,854	50,516	1,129	3,114	20,599	43,620	54,194	1,134	3,343	28,414	30,127	40,110
Rapides.....	4,594	4,685	6,269	18,994	41,050	4,450	4,506	6,277	19,465	41,839	4,399	4,650	6,109	16,822	35,165
Red River.....	5,832	4,701	3,722	5,585	20,851	5,916	4,639	3,739	5,731	21,493	5,577	4,672	3,630	5,065	17,089
Richland.....	10,794	8,076	17,941	18,271	20,588	10,902	7,965	18,565	18,271	21,327	10,478	7,834	16,716	13,070	14,400
Sabine.....	5,203	5,905	5,970	1,934	4,995	5,144	5,697	5,081	1,899	5,107	4,868	5,723	5,587	1,657	4,603
St. Helena.....	888	3,624	7,800	8,014	9,500	833	3,365	7,730	7,953	9,479	882	3,590	7,445	7,243	8,648
St. Landry.....	15,373	17,002	28,286	54,889	68,923	14,391	15,908	27,771	57,830	68,437	15,108	16,792	27,671	44,037	61,480
St. Martin.....	1,479	2,027	5,707	8,904	12,905	1,480	2,112	5,881	8,927	13,847	1,457	2,025	5,718	6,496	11,299
St. Tammany.....	233	732	714	880	1,197	208	787	707	833	1,159	194	721	679	680	1,047
Tangipahoa.....	514	3,388	5,805	6,681	7,072	478	3,206	5,755	6,532	7,138	505	3,353	5,498	5,748	6,398
Tensas.....	10,911	10,832	24,102	29,603	34,120	11,010	11,177	25,252	31,752	36,185	10,237	10,659	22,020	18,414	20,152
Union.....	3,751	5,296	15,185	19,842	21,972	3,686	5,153	15,036	19,759	22,218	3,458	5,014	14,077	15,873	17,634
Vermillion.....	1,549	2,781	2,310	8,506	9,518	1,728	2,856	2,366	8,886	10,122	1,530	2,763	2,235	4,867	7,803
Vernon.....	947	857	765	388	1,407	820	800	743	803	1,376	410	498	703	289	1,166
Washington.....	3,080	8,975	10,834	9,693	11,410	2,920	8,300	10,520	9,811	11,322	2,930	8,539	10,257	8,779	9,837
Webster.....	7,075	5,430	6,659	8,820	14,590	7,155	5,404	6,825	8,375	15,095	6,822	5,143	6,154	7,322	12,078
West Carroll.....	2,469	3,006	4,653	4,604	4,920	2,502	3,128	4,823	4,640	5,183	2,234	2,787	4,346	2,912	3,254
West Feliciana.....	431	1,371	11,285	15,674	21,292	405	1,235	11,714	15,875	22,020	387	1,336	11,041	12,980	17,051
Winn.....	1,118	754	1,331	2,422	6,316	1,031	688	1,268	2,276	5,125	893	656	890	1,614	5,134
All other.....	88	1,248	11,504	19,657	26,789	101	1,225	11,611	19,969	27,633	65	1,150	10,373	12,685	20,629

MISSISSIPPI.

The state.....	1,212,104	1,073,105	1,620,325	1,442,881	1,483,408	1,262,680	1,083,215	1,065,045	1,468,177	1,530,748	1,066,216	956,509	1,441,947	1,120,908	1,184,914
Adams.....	1,062	1,700	14,155	20,455	23,836	1,084	1,592	14,124	20,455	22,400	1,020	1,592	13,213	15,467	19,144
Alcorn.....	7,078	5,030	8,611	6,301	6,953	8,090	5,101	8,954	6,398	7,265	7,380	4,722	8,266	5,348	6,134
Amita.....	3,533	14,063	25,889	25,608	25,693	3,303	13,245	25,490	25,353	26,315	3,435	13,612	24,870	20,343	21,921
Attala.....	21,122	13,090	21,367	23,887	20,184	21,097	13,085	20,474	23,013	20,592	19,426	12,252	19,356	19,229	17,770
Benton.....	6,975	4,447	8,445	7,295	6,512	7,007	4,400	8,458	7,329	6,702	6,389	4,184	7,624	5,671	4,970
Bolivar.....	71,175	56,131	85,466	68,593	71,699	79,531	61,230	93,314	74,775	79,605	57,082	47,769	71,044	46,834	47,854
Calhoun.....	9,240	6,671	13,227	11,359	11,015	9,301	8,435	13,386	11,418	11,810	7,480	7,644	11,651	9,010	9,894
Carroll.....	19,355	14,263	24,564	20,613	18,468	19,444	14,093	24,692	20,300	18,534	17,059	12,542	22,362	16,763	15,247
Chickasaw.....	14,296	13,825	23,033	16,071	18,383	14,902	13,084	24,152	17,231	19,699	13,673	13,400	21,248	14,715	17,189
Choctaw.....	7,542	5,100	9,263	8,746	9,730	7,623	5,055	9,263	8,749	10,002	6,770	4,355	8,542	7,472	8,787
Clairborne.....	4,931	8,970	21,397	24,188	23,644	4,289	7,664	19,959	22,582	22,315	4,899	8,893	20,540	10,423	18,820
Clarke.....	10,122	8,674	6,891	6,891	11,027	10,652	6,846	13,327	10,202	10,202	9,217	7,848	11,584	8,260	9,707
Clay.....	14,455	9,520	18,972	16,807	17,593	15,473	9,714	19,712	17,054	18,497	12,013	9,231	18,516	15,014	17,043
Coahoma.....	51,015	49,811	67,615	49,719	49,835	50,098	53,407	70,085	52,056	51,081	37,831	41,140	51,833	34,784	30,686
Copiah.....	14,265	19,448	32,233	30,689	33,862	14,048	18,705	31,318	30,450	33,611	13,929	18,693	30,242	25,501	29,412
Covington.....	8,924	7,690	9,540	6,670	8,601	8,628	7,407	9,189	6,420	8,384	8,301	7,113	8,877	5,309	7,662
De Soto.....	18,388	22,740	23,887	22,008	26,120	19,443	23,536	31,895	23,035	28,199	15,209	19,017	26,196	17,785	19,121
Forrest ¹	3,361	2,803	3,478	2,147		3,348	2,797	8,493	2,098		3,200	2,534	9,222	1,859	
Franklin.....	1,314	5,451	15,004	15,045	14,857	1,193	5,085	14,093	14,988	14,890	1,250	5,421	13,474	11,066	11,822
Greene.....	414	692	902	883	575	419	683	906	402	594	354	601	760	276	123
Grenada.....	9,901	8,988	16,085	11,011	13,632	9,917	9,306	16,027	11,530	13,621	8,947	7,933	14,013	10,091	10,867
Hinds.....	30,797	31,035	46,890	51,767	49,521	31,265	29,707	46,158	52,188	50,452	30,202	29,076	44,129	41,035	42,751
Holmes.....	42,406	29,836	48,369	50,922	47,084	45,075	29,381	48,842	52,126	48,445	38,134	26,020	42,950	40,126	38,006
Issaquena.....	13,332	11,925	11,660	15,446	16,878	14,111	12,412	12,256	16,580	17,845	9,210	9,009	9,491	7,540	8,746
Itawamba.....	7,528	7,063	9,850	9,097	10,292	7,805	7,124	10,248	9,264	10,642	7,048	6,799	8,826	7,467	9,400
Jasper.....	13,887	11,259	16,808	12,106	12,332	13,781	11,007	15,974	11,869	12,763	13,040	10,381	14,809	10,362	11,369
Jefferson.....	3,593	8,041	21,261	22,955	24,911	3,155	7,370	21,123	22,510	24,408	3,404	7,944	19,682	18,124	20,532
Jefferson Davis.....	11,621	12,124	14,920	9,061	12,378	11,440	11,714	14,550	9,068	12,066	11,160	11,286	14,060	7,696	11,124
Jones.....	12,193	10,220	13,404	8,601	11,075	11,679	9,836	13,110	8,134	10,803	11,299	9,313	12,171	6,281	9,717
Kemper.....	18,772	12,843	19,807	22,263	22,263	19,587	12,792	20,144	22,671	23,626	17,379	11,328	17,742	17,818	18,525
Lafayette.....	11,834	12,449	18,068	15,170	15,054	11,905	12,332	17,078	14,781	15,211	9,747	11,176	10,995	12,020	11,602
Lamar.....	2,693	2,470	3,065	1,647	2,084	2,553	2,348	2,957	1,589	2,064	2,401	2,281	2,677	1,396	1,903
Lauderdale.....	19,257	14,848	22,315	20,322	23,196	19,715	14,043	22,145	20,310	23,201	17,070	12,662	19,727	10,618	19,636
Lawrence.....	6,383	9,994	12,053	8,633	9,481	6,									

TABLE 17.—QUANTITY OF COTTON, EXCLUSIVE OF LINTERS, GINNED FROM THE CROPS OF 1906 TO 1910 BY COUNTIES—Continued.

MISSISSIPPI—Continued.

COUNTY.	TOTAL NUMBER OF BALES GINNED (COUNTING ROUND AS HALF BALES)—					NUMBER OF EQUIVALENT 500-POUND BALES—					NUMBER OF BALES GINNED TO DEC. 13 (COUNTING ROUND AS HALF BALES)—				
	1910	1909	1908	1907	1906	1910	1909	1908	1907	1906	1910	1909	1908	1907	1906
Madison.....	5,884	7,816	9,732	7,171	8,486	5,671	7,488	9,321	7,069	8,568	5,523	7,165	8,879	6,196	7,385
Marshall.....	21,123	14,967	23,935	20,607	20,045	22,052	15,089	24,828	20,860	20,955	18,423	13,944	22,109	17,080	15,364
Mourne.....	22,505	18,044	31,402	27,657	28,754	25,165	19,183	34,841	30,417	31,733	21,228	17,525	30,092	23,703	27,464
Montgomery.....	17,087	11,333	19,199	16,809	15,348	17,395	11,184	19,088	16,295	15,009	14,612	10,061	17,317	13,157	12,581
Neshoba.....	16,110	10,176	15,205	13,766	12,807	15,964	9,647	14,709	13,550	12,674	14,080	8,423	12,362	10,520	9,753
Newton.....	17,698	12,507	20,475	17,899	18,043	17,808	12,379	20,127	17,603	17,092	15,952	10,862	18,168	14,204	15,262
Noxubee.....	27,439	17,165	27,697	28,613	25,873	29,073	19,945	28,055	29,449	26,691	26,532	15,405	26,020	24,352	24,399
Oktibbeha.....	12,927	7,625	13,045	11,443	11,333	13,666	7,818	14,206	11,961	12,375	12,438	7,133	12,510	10,070	11,293
Panola.....	20,799	25,592	40,026	31,478	27,474	21,894	25,969	42,091	32,351	28,606	18,571	23,158	38,244	26,120	21,413
Pearl River.....	396	892	1,223	539	1,174	382	813	1,186	511	1,161	350	819	1,070	423	898
Perry ¹	1,439	1,360	1,577	1,016	3,021	1,395	1,328	1,544	993	3,728	1,339	1,161	1,360	502	3,080
Pike.....	9,121	21,234	20,845	22,407	26,272	8,607	19,442	27,269	22,295	26,077	8,608	19,521	24,246	10,440	23,328
Pontotoc.....	10,889	10,777	15,820	12,147	14,015	11,161	10,928	16,260	12,460	15,674	10,321	10,128	14,994	10,412	13,787
Prennis.....	10,832	8,663	13,513	11,533	12,265	11,365	8,948	14,283	11,916	13,110	10,069	8,119	12,720	9,504	10,924
Quitman.....	11,792	11,110	15,775	9,260	9,630	12,683	11,563	16,242	9,479	10,094	9,803	9,193	13,016	6,601	4,846
Rankin.....	16,117	12,878	18,472	18,338	19,242	15,621	12,435	18,217	13,265	10,384	14,885	11,866	16,630	13,308	15,170
Scott.....	11,018	7,921	11,933	12,089	12,217	11,210	7,661	11,049	11,817	10,182	10,182	7,171	10,226	6,622	10,268
Sharkey.....	22,136	18,849	19,671	20,581	20,622	24,527	21,345	21,898	23,005	23,604	16,774	14,744	16,343	12,533	13,090
Simpson.....	12,277	10,788	14,545	11,416	12,910	11,096	10,082	13,975	10,946	12,685	11,835	10,192	12,865	8,315	10,169
Smith.....	13,368	10,702	13,716	11,029	11,769	12,992	10,197	13,980	11,029	11,769	12,525	10,249	12,049	6,404	8,027
Sunflower.....	50,715	37,653	55,374	41,786	41,437	52,875	35,677	57,500	44,602	44,258	41,525	34,601	46,843	33,092	30,598
Tallahatchie.....	32,467	26,155	39,394	27,581	29,430	33,490	23,715	41,033	28,131	30,654	25,687	23,018	32,354	21,356	19,326
Tate.....	11,964	14,862	21,894	16,679	17,768	12,855	15,088	22,450	16,756	18,870	10,852	13,023	20,696	14,175	14,164
Tippah.....	8,969	5,509	9,556	7,058	8,057	9,303	5,740	10,367	7,681	8,453	7,997	4,835	8,811	6,050	6,808
Tishomingo.....	5,730	4,013	5,544	4,366	5,366	5,712	4,052	5,699	4,464	5,530	5,421	3,840	5,186	3,621	4,788
Tunica.....	24,084	27,073	33,534	23,148	29,783	25,404	28,273	40,838	24,305	31,272	18,149	22,196	30,423	16,100	19,485
Union.....	10,669	7,915	12,974	12,177	12,876	11,089	8,013	13,881	12,284	13,592	9,838	7,377	12,120	10,100	11,696
Warren.....	8,395	11,320	11,702	19,002	23,302	8,031	10,586	10,962	18,059	22,716	6,820	8,043	10,077	11,564	15,491
Washington.....	63,485	60,522	60,523	65,197	68,171	72,751	67,648	67,068	71,827	76,173	51,613	50,569	52,310	41,981	45,720
Wayne.....	4,221	4,414	6,135	5,577	6,394	4,288	4,518	6,617	5,725	6,604	3,706	3,601	5,625	4,383	5,614
Webster.....	11,086	8,059	11,594	9,943	10,024	10,778	7,746	11,474	10,060	10,172	10,211	7,138	10,437	8,491	9,361
Wilkinson.....	1,186	4,353	17,720	23,128	22,345	1,152	4,161	16,442	21,393	20,909	1,063	4,271	16,414	16,987	21,862
Winston.....	13,438	7,736	13,773	13,410	12,757	14,495	7,694	13,962	13,587	13,257	12,174	6,584	11,415	10,361	10,806
Yalobusha.....	11,127	12,205	19,471	15,265	15,970	11,165	12,243	19,326	15,113	16,096	9,756	10,995	17,064	12,541	12,918
Yazoo.....	40,950	32,181	46,531	52,609	46,137	40,884	31,243	45,990	51,534	45,726	37,705	20,025	41,688	36,475	35,642
All other.....	794	186	442	163	276	790	182	434	158	276	745	141	221	121	.....

MISSOURI.

The state.	58,822	44,444	58,057	34,105	51,703	69,633	45,141	61,907	39,243	54,358	44,993	41,644	50,010	23,674	34,141
Dunklin.....	25,251	22,340	30,326	19,225	30,084	25,035	22,460	32,002	20,459	31,179	19,971	21,651	26,906	13,460	19,380
New Madrid.....	8,971	5,938	7,404	4,396	6,505	9,046	5,832	7,715	4,595	6,902	6,533	5,101	6,481	3,222	4,402
Oregon ²	346	.....	.....	.....	.....	360	.....	.....	.....	.....	224	.....	.....	.....	.....
Ozark.....	1,555	1,176	1,858	1,071	1,368	1,587	1,192	1,995	1,154	1,450	981	1,128	1,430	809	795
Pemiscot.....	16,380	9,055	11,402	6,501	9,379	16,860	9,997	12,430	6,873	9,957	12,503	8,865	9,861	4,401	6,734
Stoddard.....	4,677	3,907	4,889	1,635	2,701	5,010	4,169	4,986	1,844	3,023	3,646	3,721	4,314	1,962	1,001
Taney.....	893	639	923	568	676	893	698	940	514	608	540	617	606	287	369
All other.....	839	789	1,195	769	1,149	842	798	1,239	804	1,239	695	661	913	453	560

NORTH CAROLINA.

The state.	753,087	633,746	683,628	637,961	611,258	706,142	600,006	646,958	605,310	579,326	664,722	581,954	615,736	523,257	546,524
Alamance.....	1,419	934	1,206	1,352	1,292	1,264	785	1,119	1,200	1,160	1,169	806	651	944	1,079
Alexander.....	2,148	1,415	1,847	1,808	1,897	1,966	1,229	1,579	1,565	1,640	1,712	1,195	1,323	1,420	1,568
Anson.....	24,371	21,129	22,964	19,580	16,174	23,694	21,053	23,010	19,461	16,132	21,914	19,690	21,024	16,874	15,100
Beaufort.....	8,234	8,216	7,809	6,590	4,522	7,816	8,232	7,817	6,066	4,339	7,307	7,530	6,940	4,844	3,989
Bertie.....	9,596	6,715	9,808	9,007	10,490	9,588	6,736	10,016	8,893	10,593	7,804	5,702	7,439	5,611	8,361
Bladen.....	5,626	4,733	4,388	4,707	4,820	5,516	4,769	4,326	4,720	4,828	5,264	4,441	4,181	4,315	4,475
Brunswick.....	940	598	658	689	637	943	601	723	674	674	469	469	573	557	551
Cabarrus.....	12,147	9,146	10,347	10,217	9,932	11,911	8,782	9,765	9,784	8,770	11,034	8,283	8,841	8,280	8,239
Camden.....	2,206	1,306	1,776	1,647	1,847	2,314	1,317	2,019	1,778	1,987	2,084	1,200	1,051	1,061	1,635
Carteret.....	1,664	933	653	1,123	854	1,530	891	660	1,116	893	1,074	715	542	826	411
Catawba.....	7,887	6,065	7,958	8,467	7,985	7,024	5,411	7,153	7,559	7,178	7,356	5,372	6,722	6,761	7,100
Chatham ³	8,623	7,527	8,486	7,583	8,365	7,289	6,464	7,259	6,595	7,192	7,513	6,089	7,421	5,986	7,417
Chowan.....	3,671	2,514	3,763	3,271	2,374	3,714	2,569	3,849	3,389	2,483	3,153	2,302	3,132	2,159	2,232
Cleveland.....	18,574	16,938	19,785	21,643	18,055	17,482	15,013	18,568	21,041	17,239	17,326	14,650	18,232	15,427	16,320
Columbus.....	6,221	5,635	4,506	4,287	3,747	5,983	4,923	4,455	4,305	3,775	5,754	4,726	4,233	3,728	3,501
Craven.....	6,055	5,047	3,956	4,619	3,814	5,692	4,829	3,785	4,365	3,736	5,084	4,684	3,347	3,425	3,349
Cumberland.....	19,095	17,880	13,719	13,389	10,953	17,598	16,975	12,535	12,503	10,419	17,449	16,966	13,173	11,903	10,489
Currituck.....	610														

TABLE 17.—QUANTITY OF COTTON, EXCLUSIVE OF LINTERS, GINNED FROM THE CROPS OF 1906 TO 1910, BY COUNTIES—Continued.

NORTH CAROLINA—Continued.

COUNTY.	TOTAL NUMBER OF BALES GINNED (COUNTING BOUND AS HALF BALES)—					NUMBER OF EQUIVALENT 500-POUND BALES—					NUMBER OF BALES GINNED TO DEC. 13 (COUNTING BOUND AS HALF BALES)—				
	1910	1909	1908	1907	1906	1910	1909	1908	1907	1906	1910	1909	1908	1907	1906
Gates.....	3,834	2,595	3,280	2,985	2,959	3,864	2,642	3,331	3,111	3,123	3,546	2,493	2,930	2,274	2,548
Granville.....	1,710	1,474	1,850	1,681	2,031	1,521	1,277	1,620	1,526	1,798	1,460	1,233	1,508	1,279	1,602
Greene.....	9,813	7,593	8,546	8,835	9,452	9,538	7,468	8,368	8,773	9,478	8,880	7,063	7,804	7,220	8,408
Guilford.....	310	293	534	655	339	276	238	410	581	302	179	203	382	276	257
Halifax.....	23,315	19,611	21,084	16,883	23,303	21,977	18,697	20,371	15,914	21,793	18,359	17,188	18,910	12,411	18,291
Harnett.....	13,339	11,790	10,870	9,760	7,883	11,784	10,470	9,661	8,798	6,885	12,847	11,305	10,213	8,817	7,593
Hertford.....	3,991	2,414	4,404	4,112	4,869	4,898	2,365	4,898	4,151	4,910	3,418	2,018	3,889	2,736	3,915
Hyde.....	1,320	1,114	451	541	573	1,345	1,174	390	601	600	735	516	340	222	362
Iredell.....	12,089	9,282	14,221	13,991	12,936	11,064	8,549	13,223	13,339	12,163	10,713	8,050	11,352	11,327	11,050
Johnston.....	36,254	32,800	34,638	33,339	28,843	31,577	29,105	30,800	29,685	26,126	32,479	31,161	32,308	28,152	27,180
Jones.....	5,088	5,509	4,123	4,441	3,749	4,708	5,432	4,078	4,484	3,701	4,774	5,175	3,509	3,667	3,512
Lee ¹	5,201	4,719	4,442	3,809	.....	4,485	4,041	3,777	3,247	.....	4,471	4,356	3,884	2,984	.....
Lenoir.....	9,735	7,571	8,620	9,134	8,864	9,435	7,618	7,839	9,174	8,625	9,302	7,303	7,438	7,944	8,506
Lincoln.....	8,249	5,754	8,552	8,631	7,344	7,381	5,034	7,629	7,448	6,936	7,565	5,376	7,594	7,393	6,063
Martin.....	6,642	4,801	6,672	5,724	6,708	6,541	4,745	6,496	5,710	6,646	5,559	4,220	5,603	4,218	5,790
Mecklenburg.....	33,669	27,749	32,415	31,825	27,672	32,854	28,337	32,123	31,112	27,130	30,987	25,313	28,705	27,115	25,521
Montgomery.....	5,259	4,364	4,835	3,845	3,589	5,008	4,268	4,628	3,681	3,432	4,754	3,910	4,168	3,143	3,065
Moore ¹	1,936	1,441	1,860	1,377	5,025	1,716	1,396	1,623	1,180	4,353	1,644	1,321	1,578	1,061	4,445
Nash.....	24,844	19,282	20,623	16,283	20,315	22,320	17,883	18,062	14,524	18,359	20,520	18,208	17,849	12,149	16,882
Northampton.....	11,559	9,383	11,726	9,123	12,043	11,575	9,499	11,606	9,172	12,031	9,245	8,045	10,133	6,366	10,060
Onslow.....	4,449	3,159	2,187	2,714	2,946	4,039	2,946	2,066	2,610	2,869	3,736	2,610	1,606	2,114	2,490
Orange.....	1,802	1,465	1,608	1,348	1,609	1,594	1,240	1,355	1,159	1,443	1,427	1,272	1,352	975	1,325
Pamlico.....	4,906	3,910	2,990	3,052	2,739	5,126	3,955	3,085	3,149	2,792	4,365	3,480	2,549	2,328	2,014
Pasquotank.....	4,617	3,117	3,119	2,688	3,096	4,954	3,347	3,339	2,797	3,246	3,857	2,978	2,720	1,852	2,853
Pender.....	1,247	724	583	862	980	1,160	688	574	902	872	130	207	443	642	831
Perquimans.....	5,158	3,802	5,930	4,640	3,783	5,356	3,480	5,960	4,780	3,920	4,510	3,536	5,323	3,337	3,457
Pitt.....	24,598	17,379	20,729	21,449	19,933	23,354	16,736	19,954	21,085	19,470	22,169	16,172	18,551	16,892	18,475
Polk.....	1,808	1,515	2,182	1,650	203	1,618	1,402	1,981	427	186	1,641	1,374	1,986	451	197
Randolph.....	1,785	667	655	680	897	1,500	587	555	582	720	481	515	450	422	300
Richmond.....	14,539	11,820	11,494	9,702	8,208	14,094	11,830	11,738	9,564	7,326	13,025	11,257	10,816	8,949	7,301
Robeson.....	62,944	61,321	51,445	47,104	38,476	62,363	61,634	51,438	46,526	37,788	56,806	58,205	49,243	41,304	36,488
Rowan.....	9,826	6,675	10,134	8,605	8,206	9,376	6,217	9,554	8,104	7,668	8,510	5,880	8,092	6,732	7,123
Rutherford.....	9,948	6,747	8,276	8,088	6,881	8,007	6,142	7,513	7,454	6,300	8,261	6,154	7,680	6,830	6,384
Sampson.....	16,091	15,370	14,228	15,379	11,241	14,167	13,845	12,917	13,800	10,549	13,808	13,891	13,261	13,442	9,157
Scotland.....	25,819	27,002	25,995	21,594	18,468	25,385	27,164	26,343	21,655	18,597	23,635	25,617	25,391	19,422	17,905
Stanly.....	8,514	7,621	8,272	6,899	6,449	7,988	6,768	7,705	6,427	5,701	7,521	6,479	7,023	5,300	5,577
Tyrrell.....	707	499	842	803	677	712	464	766	758	688	113	102	528	495	464
Union.....	28,355	21,725	27,430	24,731	22,066	26,894	19,613	25,378	23,420	21,099	25,841	19,573	24,488	21,027	20,389
Vance.....	4,514	2,980	3,655	3,245	4,507	4,083	2,694	3,352	2,998	4,450	4,216	2,901	3,514	2,636	4,227
Wake.....	27,354	27,105	28,331	24,905	26,770	23,968	23,977	24,642	22,011	23,627	23,399	25,477	26,195	20,786	24,742
Warren.....	11,084	9,465	9,649	7,739	9,096	9,963	8,693	8,840	7,134	8,305	9,840	8,920	9,162	5,998	8,140
Washington.....	2,096	1,652	2,672	2,395	2,262	2,797	1,675	2,762	2,500	2,341	2,408	1,568	2,426	1,849	1,931
Wayne.....	26,815	25,108	24,683	27,348	23,283	24,099	23,632	23,469	26,041	22,245	23,476	22,371	22,944	23,837	21,851
Wilson.....	24,309	17,549	18,800	18,522	20,694	22,345	16,461	17,590	17,514	19,403	21,711	16,397	17,375	14,964	18,201
All other.....	288	54	43	43	58	293	50	48	38	48	266	24	2	2	1

OKLAHOMA.

The state.	919,842	552,678	689,345	848,977	871,961	923,063	544,954	690,752	862,383	897,826	805,561	514,535	494,934	685,595	643,667
Adair.....	1,144	498	1,179	170	584	1,134	477	1,165	175	699	883	432	1,025	176	443
Atoka.....	3,672	1,341	1,408	2,251	4,719	3,735	1,280	1,391	2,267	4,920	3,550	1,099	1,099	1,762	3,974
Beckham.....	23,728	12,725	9,791	31,050	33,228	23,073	12,412	9,444	31,577	34,567	22,656	10,705	5,888	21,127	15,504
Blaine.....	1,843	1,034	2,008	6,361	4,807	1,814	4,807	1,944	4,722	4,722	1,680	906	6,220	6,220	6,220
Bryan.....	25,005	10,983	6,622	8,758	20,737	20,380	11,099	6,746	9,009	21,620	23,492	10,829	6,296	7,761	18,804
Caddo.....	20,367	13,596	25,623	32,442	35,882	19,768	12,894	24,675	32,332	36,427	19,358	12,132	16,393	26,798	21,152
Canadian.....	1,026	779	2,713	2,468	3,035	1,002	758	2,011	2,341	2,992	990	697	1,761	2,056	1,913
Cartter.....	20,395	10,294	11,018	18,105	21,105	21,133	10,563	11,404	18,974	22,127	19,530	10,102	9,176	14,829	16,568
Cherokee.....	6,454	3,686	6,938	5,293	5,229	6,382	3,651	7,028	5,281	5,359	5,709	6,622	5,570	4,661	4,115
Choctaw.....	9,949	4,274	3,692	4,685	11,746	10,122	4,277	3,744	4,769	12,317	9,729	4,167	3,478	4,265	10,376
Cleveland.....	20,090	11,188	9,750	16,829	21,507	20,315	11,154	9,651	17,326	22,144	19,605	10,937	7,060	14,991	16,971
Coal.....	6,376	2,386	2,510	4,037	4,270	6,483	2,345	2,637	4,251	4,455	6,327	2,379	2,008	3,511	3,558
Comanche ²	29,778	25,392	27,358	24,822	26,544	29,867	25,377	27,435	25,368	27,843	27,915	23,079	18,338	16,048	17,062
Creek.....	16,563	8,531	10,588	7,204	6,269	16,677	8,246	7,229	7,229	6,462	16,008	7,658	7,498	5,680	4,761
Custer.....	4,697	2,222	2,937	6,926	8,611	4,567	2,139	2,889	6,718	8,678	4,897	1,930	1,323	4,951	5,182
Dewey.....	623	426	525	1,775	1,372	625	410	510	1,702	1,383	595	837	262	787	739
Garvin.....	30,063	18,946	11,828	29,354	25,673	30,935	18,414	11,631	29,536	25,101	29,032	18,404	9,258	25,804	19,639
Grady.....	9,229	3,476	8,669	13,585	10,640	9,211	3,430	8,570	13,667	10,596	8,497	3,298	5,652	11,703	6,820
Greer ³	27,546	16,720	40,074	51,810	33,715	27,507	15,720	41,496	64,587	35,670	25,508	18,880	24,970	33,219	17,769
Harrison ³	22,048	9,372	.....	.....	.....	22,024	9,372	.....	.....	.....	21,198	8,366	.....	.....	.....
Haskell.....	15,496	7,675	13,190	12,544	12,456	15,694	7,701	13,906	12,321	13,025	14,337	7,490	10,547	11,017	11,000
Hughes.....	25,359	18,815	20,893	23,414	20,463	25,211	18,225	20,684	23,916	21,347	24,145	18,405	15,102	20,270	17,139
Jackson.....	37,350	25,392	23,885	36,599	25,201	38,119	26,123	24,363	38,802	26,663	34,722	21,635	19,248	27,637	14,043
Jefferson.....	15,000	10,258	15,845	16,621	18,049	15,423	10,246	15,778	17,213	19,397	14,304	9,784	11,943	14,161	13,936
Johnston.....	17,568	9,585	5,925	13,179	17,432	17,726	5,708	5,958	13,564	18,240	17,185	6,581	4,811	10,863	15,422
Kingfisher.....	4,512	3,634	6,008	4,381	3,959	4,									

TABLE 17.—QUANTITY OF COTTON, EXCLUSIVE OF LINTERS, GINNED FROM THE CROPS OF 1906 TO 1910, BY COUNTIES—Continued.

OKLAHOMA—Continued.

COUNTY.	TOTAL NUMBER OF BALES GINNED (COUNTING ROUND AS HALF BALES)—					NUMBER OF EQUIVALENT 500-POUND BALES—					NUMBER OF BALES GINNED TO DEC. 13 (COUNTING ROUND AS HALF BALES)—				
	1910	1909	1908	1907	1906	1910	1909	1908	1907	1906	1910	1909	1908	1907	1906
Love	15,574	6,921	8,478	11,795	15,380	16,082	7,004	8,475	12,097	16,232	14,868	6,545	7,306	9,420	11,781
McClain	13,065	6,322	5,592	9,402	9,110	13,149	6,198	5,492	9,657	9,891	12,097	6,214	4,132	8,414	7,307
McCurtain	5,414	1,945	3,324	5,015	7,144	5,405	1,836	3,370	5,236	7,501	5,232	1,846	2,472	3,440	6,152
McIntosh	17,299	11,979	13,215	14,768	11,982	17,399	11,145	13,416	14,777	12,233	16,300	11,925	10,423	12,428	10,290
Marshall	12,067	3,800	4,456	10,963	12,818	12,384	3,815	4,532	11,154	13,499	11,866	3,766	3,909	9,532	10,234
Mayes	3,405	1,134	2,015	1,224	1,531	3,337	1,102	1,935	1,202	1,490	2,752	1,100	1,500	1,003	978
Murray	10,136	4,728	3,151	10,878	8,476	10,696	4,728	3,208	11,157	8,740	9,818	4,695	2,681	9,214	7,018
Muskogee	23,450	9,240	15,616	17,634	15,970	23,694	9,175	15,728	17,817	16,386	21,625	8,973	12,123	14,910	13,637
Noble	1,521	1,919	4,039	6,666	3,714	1,446	1,851	3,845	6,461	3,659	1,432	1,694	2,747	4,304	2,977
Oklfuskee	24,615	19,393	19,645	20,003	12,184	24,423	19,320	20,011	20,339	12,509	22,556	15,851	14,222	16,668	9,771
Oklahoma	12,175	7,515	9,229	11,227	15,568	12,102	7,498	9,267	11,256	16,105	11,539	6,888	6,324	9,777	12,301
Oklmulgee	9,477	5,559	9,435	6,433	8,023	9,597	5,215	9,736	6,496	8,260	9,122	5,264	6,241	5,552	6,750
Osage	4,437	2,146	3,129	1,964	2,693	4,441	2,117	3,209	1,416	851	4,228	1,626	2,161	997	6,638
Pawnee	8,419	6,214	11,796	9,123	8,750	8,426	5,794	11,434	9,019	8,545	8,935	5,302	6,252	6,659	7,013
Payne	15,931	14,946	21,775	20,347	21,432	15,245	14,373	21,327	20,094	21,159	14,846	13,141	15,119	17,113	18,448
Pittsburg	19,690	8,639	12,732	13,633	12,905	19,639	8,473	12,731	13,778	13,419	10,067	8,593	9,990	11,808	10,787
Ponotoc	25,937	11,871	13,797	20,070	19,813	26,737	11,858	14,015	20,500	20,465	24,953	11,538	10,089	17,873	16,439
Pottawatomie	47,988	31,321	31,131	37,339	40,004	47,896	30,615	30,679	37,197	46,933	45,887	29,670	23,381	34,200	37,132
Pushmataha	2,630	1,050	1,321	1,328	2,552	2,676	1,048	1,342	1,331	2,678	2,555	1,043	1,173	1,178	2,251
Roger Mills	2,989	725	1,331	5,751	4,937	2,977	704	1,368	5,851	5,105	2,003	626	1,248	4,415	2,918
Seminole	10,437	13,514	14,194	14,767	16,128	19,468	13,284	14,359	15,443	10,719	18,824	13,251	10,821	11,154	13,443
Sequoyah	25,378	15,701	21,014	19,628	21,230	25,400	15,958	20,729	20,948	21,766	23,278	15,357	16,451	17,639	17,877
Stephens	21,836	14,636	10,681	20,926	23,010	22,393	14,616	11,112	21,818	23,583	20,726	14,317	18,075	18,091	16,722
Swainson	17,466					17,515					16,732				
Tillman	19,405	13,710	20,400	16,238	12,648	19,129	14,017	21,111	16,389	13,621	18,047	11,726	12,079	10,689	8,253
Tulsa	3,340	1,178	2,464	1,157	1,334	3,430	1,149	2,338	1,162	1,322	2,917	1,145	1,933	1,047	1,014
Wagoner	14,637	11,954	13,048	9,338	8,784	14,344	11,270	13,233	10,419	8,954	13,819	11,743	9,989	8,049	6,947
Washita	21,183	14,317	15,188	22,075	21,706	20,713	14,254	15,274	22,629	22,436	20,691	13,149	10,346	15,925	11,922
Woodward	236	212	1,347	1,732	1,029	231	204	1,349	1,857	1,101	196	131	673	696	28
All other	2,223	1,106	4,073	8,367	4,437	2,167	1,077	4,094	8,694	4,744	1,926	856	2,675	4,717	1,438

SOUTH CAROLINA.

The state	1,210,968	1,137,382	1,215,848	1,163,565	912,602	1,163,501	1,099,955	1,170,608	1,119,220	876,181	1,107,556	1,064,819	1,134,183	1,014,356	838,828
Abbeville	32,804	29,854	34,572	41,812	32,025	32,069	29,896	34,164	41,235	32,497	31,547	27,727	31,683	30,595	20,870
Alcon	36,160	37,500	34,587	34,720	23,018	35,687	36,530	33,943	33,637	21,710	32,554	35,671	32,474	31,827	22,054
Anderson	63,175	49,501	63,183	65,182	50,791	61,011	45,203	61,981	63,651	40,772	60,375	46,097	57,947	56,010	45,449
Barnberg	16,572	21,366	21,897	16,562	16,186	16,890	22,329	22,891	17,248	16,678	15,280	20,599	21,246	15,055	15,062
Barnwell	42,953	43,248	41,599	39,012	31,031	45,043	44,010	43,666	40,749	32,365	30,750	41,866	40,187	34,892	29,380
Beaufort	9,904	7,744	6,916	7,570	6,041	8,993	6,803	6,200	6,866	5,334	7,527	6,530	5,613	5,924	5,130
Berkeley	12,465	12,406	18,175	17,668	12,242	11,178	11,454	16,305	15,906	11,022	11,861	11,943	17,260	15,304	11,182
Calhoun ²	21,441	23,244	23,973	22,145	20,125	20,125	21,292	21,494	16,538		18,353	21,140	22,170	18,744	
Charleston	14,169	13,436	13,126	11,717	7,666	10,770	9,754	8,394	8,546	5,476	11,194	10,331	10,782	9,274	6,546
Cherokee	14,793	12,131	14,867	14,915	12,460	14,210	11,391	14,284	11,848	11,848	13,903	11,644	13,866	12,647	12,063
Chester	28,384	21,931	26,903	27,351	23,013	26,903	20,830	25,456	25,147	22,378	27,153	20,383	25,809	24,286	21,675
Chesterfield	20,878	24,063	22,726	16,647	14,994	26,424	22,026	22,026	15,968	14,187	25,833	22,418	20,835	14,019	13,290
Clarendon	36,060	31,832	29,889	29,608	21,696	36,054	32,870	29,757	29,857	21,718	32,350	30,162	28,320	27,476	20,494
Colleton	15,671	16,844	16,315	14,745	11,324	14,390	15,749	15,739	13,975	10,813	14,257	15,891	15,297	13,491	10,760
Darlington	40,369	42,547	39,724	31,129	24,513	40,687	43,287	40,503	30,886	24,557	35,375	41,108	37,675	28,321	23,135
Dillon ³	40,376	40,340				39,318	38,910				35,918	38,207			
Dorchester	14,188	11,530	11,758	10,529	8,313	13,947	10,970	11,074	10,013	7,894	11,645	11,353	11,423	9,789	7,773
Edgefield	26,430	27,611	26,201	31,663	22,205	25,643	26,203	25,286	30,536	21,189	24,715	23,394	24,738	29,105	20,742
Fairfield	25,682	21,179	28,662	28,457	23,578	25,143	20,822	28,347	28,161	23,210	24,599	19,807	26,844	25,349	22,347
Florence	33,916	37,411	30,855	28,041	22,574	34,140	37,942	29,689	27,615	22,271	31,407	35,738	29,695	25,720	21,485
Georgetown	3,464	3,946	3,713	2,348	1,334	3,413	4,012	3,889	2,359	1,344	3,272	3,716	3,500	2,152	1,220
Greenville	37,369	29,488	40,323	40,670	30,881	35,281	27,621	36,794	36,972	27,967	33,767	25,903	35,406	35,456	27,369
Greenwood	29,744	28,073	34,360	37,486	28,041	28,959	27,439	33,370	36,594	27,793	28,055	25,718	31,807	33,259	26,417
Hampton	16,442	19,569	15,974	14,390	11,343	16,625	20,185	16,514	14,673	11,133	15,113	18,605	14,967	13,168	9,140
Horry	8,486	8,293	8,372	6,613	5,997	7,847	7,847	8,010	6,204	5,713	7,652	7,800	7,185	5,653	5,077
Kershaw	23,063	19,619	21,341	18,084	15,042	21,527	20,461	21,721	18,323	14,738	20,661	17,449	20,232	16,167	14,256
Lancaster	24,556	20,735	25,813	22,501	19,880	23,053	19,250	24,346	20,773	18,329	22,546	13,591	23,817	19,351	18,913
Laurens	42,312	32,321	42,439	46,431	36,874	39,799	36,569	40,096	44,230	35,436	40,386	30,132	39,182	40,176	33,413
Lee	28,459	32,246	35,136	26,624	19,628	26,877	32,169	34,033	28,253	20,358	25,623	30,444	32,793	21,819	17,589
Lexington ²	24,177	21,632	21,034	23,270	17,144	20,434	19,962	19,652	21,036	15,260	21,586	20,379	19,993	19,999	15,886
Marion ³	17,810	18,041	49,032	44,675	33,565	16,585	17,027	47,115	42,325	31,521	16,720	17,301	46,499	39,132	21,028
Marlboro	66,413	67,842	58,598	53,366	40,821	67,343	67,177	57,930	52,768	3					

TABLE 17.—QUANTITY OF COTTON, EXCLUSIVE OF LINTERS, GINNED FROM THE CROPS OF 1906 TO 1910, BY COUNTIES—Continued.

TENNESSEE.

COUNTY.	TOTAL NUMBER OF BALES GINNED (COUNTING ROUND AS HALF BALES)—					NUMBER OF EQUIVALENT 500-POUND BALES—					NUMBER OF BALES GINNED TO DEC. 13 (COUNTING ROUND AS HALF BALES)—				
	1910	1909	1908	1907	1906	1910	1909	1908	1907	1906	1910	1909	1908	1907	1906
The state.	321,103	240,757	334,084	266,433	203,023	331,947	246,630	344,485	275,235	130,037	269,670	221,465	302,627	204,460	220,552
Benton.....	1,885	953	1,274	644	1,057	1,997	966	1,316	739	1,140	1,608	988	1,176	387	685
Bradley.....	650	538	751	447	458	573	469	657	404	414	552	513	535	340	380
Carrall.....	11,466	9,705	12,525	9,064	11,778	11,338	9,457	12,564	9,189	12,054	9,739	9,221	11,837	6,768	8,824
Chester.....	4,073	8,171	4,809	3,965	3,973	4,227	3,255	4,987	4,107	4,236	3,704	3,055	4,460	2,955	2,929
Crockett.....	11,116	8,322	10,394	8,287	10,407	11,347	8,505	10,984	8,826	11,406	9,694	8,015	9,980	6,798	8,250
Decatur.....	2,129	2,226	3,146	1,550	1,089	2,171	2,286	3,174	1,559	2,019	1,088	2,117	2,803	1,076	1,487
Dyer.....	24,329	14,745	22,851	15,203	17,760	24,864	14,671	23,811	16,066	18,648	19,728	13,631	21,564	11,897	13,191
Fayette.....	26,284	16,702	26,797	24,584	21,549	19,248	17,892	27,944	25,440	22,066	22,715	16,428	24,206	19,998	16,294
Gibson.....	22,353	15,502	20,060	15,042	19,618	22,380	15,322	20,131	14,774	19,190	17,565	14,404	19,918	11,615	15,366
Giles.....	7,316	4,592	9,171	7,088	9,901	7,291	4,361	9,175	7,078	10,107	6,106	4,221	7,782	4,739	7,331
Hardeman.....	14,004	9,656	17,373	13,398	12,950	14,892	9,857	17,602	13,454	13,000	12,758	9,180	15,881	10,214	10,196
Hardin.....	6,023	4,935	7,123	4,490	5,774	6,257	4,994	7,293	4,670	6,130	5,303	4,604	6,655	3,624	4,877
Haywood.....	18,702	14,562	19,895	15,435	17,601	19,248	14,882	20,782	15,722	18,481	15,014	13,820	17,536	11,995	11,846
Henderson.....	8,741	6,358	8,462	6,301	6,837	7,636	6,391	8,508	6,435	7,074	7,144	5,695	7,805	4,886	5,048
Henry.....	2,258	1,823	2,559	1,985	2,354	2,662	1,847	2,596	2,042	2,909	2,173	1,666	2,408	1,404	2,247
Lake.....	18,939	11,123	15,362	12,172	12,478	18,666	10,802	15,611	13,009	12,887	14,547	9,397	12,962	8,278	8,252
Lauderdale.....	20,412	22,275	25,039	23,072	22,998	21,506	22,850	25,540	23,996	24,148	16,741	18,779	23,389	17,671	16,695
Lincoln.....	4,114	3,528	5,754	4,355	5,993	4,242	3,652	5,947	4,381	6,205	3,746	3,354	5,267	3,308	5,301
McMinn.....	1,369	1,223	1,519	914	1,006	1,289	1,108	1,391	824	1,032	1,184	1,197	1,244	740	873
McNairy.....	7,828	6,277	9,093	6,546	7,617	8,171	5,416	10,133	6,871	8,115	7,265	4,820	9,022	4,290	6,142
Madison.....	15,695	10,795	16,625	12,792	13,755	16,900	10,994	17,150	13,181	14,443	13,646	10,037	15,057	10,517	10,148
Obion.....	4,853	2,504	3,976	2,958	4,747	4,429	2,328	4,254	3,012	4,986	3,070	1,931	3,492	2,436	3,607
Polk.....	990	1,147	1,628	1,030	1,323	855	1,007	1,519	975	1,276	805	1,099	400	847	1,159
Rutherford.....	7,209	6,137	7,902	6,070	8,924	7,235	6,191	7,833	6,155	9,246	5,956	5,514	6,590	4,409	7,002
Shelby.....	46,201	36,085	44,664	40,475	38,381	48,106	40,119	47,359	42,183	40,876	38,224	33,044	39,172	30,934	28,480
Tipton.....	28,596	22,932	29,499	26,128	24,082	31,102	24,108	31,157	27,671	27,011	23,020	21,763	27,323	20,193	19,480
Wayne.....	866	866	533	812	557	837	370	521	320	502	684	363	351	112	376
Wendley.....	3,117	2,057	2,879	2,374	4,115	3,093	2,006	3,197	2,443	4,235	2,782	1,890	2,711	1,710	3,065
All other.....	885	858	1,350	702	1,641	881	846	1,358	700	1,002	704	810	1,101	303	955

TEXAS.

The state.	2,949,968	2,469,331	3,627,350	2,208,021	3,957,619	3,049,409	2,522,811	3,814,485	2,300,179	4,174,206	2,849,250	2,262,938	3,368,183	1,989,968	3,485,565
Anderson.....	17,552	15,093	13,723	8,783	13,789	17,935	15,014	14,327	8,899	13,043	17,309	14,014	13,166	7,969	13,472
Angelina.....	2,518	2,535	3,016	1,076	2,504	3,528	2,455	3,080	1,055	2,522	3,376	2,344	2,770	907	2,313
Archer.....	4,128	4,114	5,349	1,714	761	4,175	4,280	5,369	1,790	819	3,957	3,704	2,157	335	620
Atascosa.....	5,945	4,202	10,300	3,776	7,923	6,179	4,297	10,774	3,921	8,215	5,429	3,974	10,068	3,748	7,824
Austin.....	24,734	15,630	17,637	14,303	30,532	20,967	10,653	19,051	15,467	33,337	24,330	14,349	17,167	13,255	29,429
Bandera.....	681	607	1,089	1,073	2,498	721	613	1,766	1,127	2,609	678	592	1,667	1,010	2,360
Bastrop.....	29,323	17,613	29,081	15,532	32,614	23,795	18,029	31,422	16,620	35,093	21,431	16,337	28,606	14,747	31,309
Baylor.....	9,622	8,919	8,500	7,850	9,340	9,720	9,131	9,037	8,302	10,027	8,913	6,888	7,852	6,748	4,689
Bee.....	10,394	7,942	12,433	7,696	11,311	11,022	8,404	13,080	8,125	11,874	10,342	7,804	12,399	7,653	11,227
Bell.....	55,339	54,942	86,061	52,853	89,962	53,006	67,898	93,027	66,515	90,090	53,588	60,216	84,928	60,842	79,822
Bexar.....	11,115	13,125	23,595	11,053	19,499	11,544	13,412	24,685	11,028	20,591	10,598	12,971	23,295	10,931	19,319
Blanco.....	2,379	2,708	6,383	2,322	5,359	2,592	2,765	5,732	2,455	5,656	2,809	2,698	5,319	2,249	5,321
Bosque.....	16,965	15,313	34,930	17,431	39,704	17,196	15,358	37,330	18,482	42,002	16,068	11,605	34,132	16,747	35,088
Bowie.....	17,104	11,070	15,901	16,246	23,734	17,934	11,754	16,340	16,792	25,196	16,847	11,625	15,431	14,317	21,952
Brazoria.....	9,895	470	3,353	3,495	2,794	8,326	443	3,602	3,756	2,855	2,207	440	3,073	2,941	2,587
Brazos.....	24,732	19,655	18,470	14,255	33,699	25,869	19,826	19,370	14,850	35,876	24,382	17,883	18,152	13,558	31,244
Briscoe.....	1,394	793	1,040	1,035	243	1,394	800	977	1,079	253	1,373	697	782	.....	.....
Brown.....	12,845	11,584	43,574	14,363	37,107	12,747	11,541	45,535	14,972	39,445	12,682	10,544	39,407	13,341	28,421
Burleson.....	24,329	17,198	17,287	12,628	33,613	26,228	18,030	13,794	13,437	36,880	24,082	16,467	17,035	11,657	30,567
Burnet.....	7,750	5,577	14,344	8,453	10,174	8,000	5,876	15,463	8,946	17,125	7,530	5,552	14,232	8,024	15,698
Caldwell.....	28,902	36,087	52,313	21,329	55,541	31,078	38,134	56,079	22,915	59,341	28,153	34,832	51,355	20,404	53,995
Callahan.....	3,114	1,299	2,542	1,742	1,994	3,222	1,307	2,755	1,846	2,094	2,331	1,047	2,471	1,023	1,911
Callahan.....	8,862	12,065	22,204	11,305	17,506	9,213	13,459	23,874	11,884	18,620	8,664	11,979	19,804	10,576	31,082
Cameron.....	3,544	1,097	2,076	1,807	2,448	3,713	1,115	2,725	1,827	2,543	3,586	1,066	2,555	1,632	1,581
Camp.....	8,844	7,345	7,552	5,902	10,632	8,706	7,100	7,520	5,795	10,845	8,605	7,088	7,314	5,271	10,392
Cass.....	16,341	14,936	18,789	13,833	25,205	15,851	14,273	18,597	13,505	25,089	16,019	14,476	17,897	11,664	24,004
Cherokee.....	12,300	8,643	6,684	3,987	8,612	12,047	8,456	6,815	3,922	8,757	11,728	7,994	6,509	3,444	8,452
Childress.....	13,969	9,194	8,582	12,945	5,940	14,234	9,085	8,078	13,543	5,940	12,687	6,905	6,164	9,998	720
Clay.....	16,809	21,096	19,790	14,577	23,000	17,186	21,421	20,443	14,997	24,854	16,011	19,461	15,859	13,717	18,661
Coke.....	683	5,392	8,938	853	10,343	669	5,584	9,480	903	10,868	631	5,125	8,236	684	7,160
Coleman.....	16,280	27,602	59,891	17,791	44,213	16,694	20,172	62,451	18,842	46,751	15,902	25,516	52,950	15,343	31,814
Collin.....	75,093	55,692	69,248	47,579	55,917	74,978	54,293	68,203	48,543	56,554	72,764	52,950	60,287	46,002	46,002
Collingsworth.....	7,278	2,144	2,780	4,813	4,653	7,418	2,123	2,821							

TABLE 17.—QUANTITY OF COTTON, EXCLUSIVE OF LINTERS, GINNED FROM THE CROPS OF 1906 TO 1910, BY COUNTIES—Continued.

TEXAS—Continued.

COUNTY.	TOTAL NUMBER OF BALES GINNED (COUNTING ROUND AS HALF BALES)—					NUMBER OF EQUIVALENT 500-POUND BALES—					NUMBER OF BALES GINNED TO DEC. 13 (COUNTING ROUND AS HALF BALES)—				
	1910	1909	1908	1907	1906	1910	1909	1908	1907	1906	1910	1909	1908	1907	1906
Dallas.....	49,644	32,120	68,169	31,647	54,104	51,362	32,460	70,705	31,223	54,006	48,546	29,648	65,323	28,847	47,884
Dawson.....	532	223	755	1,253	1,583	512	214	70,740	1,300	1,724	487	211	359	709	339
De Witt.....	33,162	30,570	29,806	23,000	30,030	32,737	30,279	30,424	24,335	39,188	32,730	29,793	29,175	23,020	38,850
Delta.....	28,847	22,105	22,452	10,688	20,719	30,337	22,965	23,020	11,185	31,651	28,040	21,839	21,063	9,020	28,278
Denton.....	34,053	24,147	30,141	27,118	30,094	35,166	24,740	31,813	27,787	30,555	33,104	22,380	27,000	23,376	25,176
Dickens.....	3,257	1,053	1,411	1,611	1,696	3,322	1,047	1,488	1,679	1,832	2,968	940	942	1,928	976
Donley.....	2,135					2,176					1,973				
Duval.....	4,587	4,562	7,223	1,930	5,408	4,748	4,659	7,551	1,906	5,683	4,363	3,067	6,938	1,856	5,219
Eastland.....	26,397	20,441	50,611	28,808	47,998	26,935	29,977	53,931	30,318	51,292	24,248	25,622	44,144	25,424	34,618
Ellis.....	104,505	77,901	138,041	76,835	152,300	106,384	79,655	145,642	79,313	158,348	99,380	71,444	126,802	70,944	140,097
Erath.....	27,367	21,151	52,081	25,237	58,355	27,925	21,340	57,673	26,254	62,249	26,219	17,530	48,549	23,750	46,205
Falls.....	45,099	41,926	54,242	34,144	66,822	46,686	44,378	50,847	37,015	71,999	44,209	37,330	51,849	31,659	60,197
Fannin.....	69,379	45,055	45,951	29,895	64,422	70,531	46,137	47,693	31,009	67,404	63,913	44,447	42,677	25,050	57,241
Fayette.....	32,242	21,813	26,139	23,568	44,250	35,286	22,570	28,168	25,392	48,410	31,038	20,132	25,355	22,171	43,267
Fisher.....	8,402	10,816	14,236	12,376	15,078	8,600	10,291	14,681	18,106	15,999	8,006	8,874	10,979	10,837	5,200
Foard.....	6,254	5,182	7,433	4,500	3,770	6,434	5,265	7,604	4,725	4,008	5,657	4,456	5,213	2,599	201
Fort Bend.....	23,017	32,767	16,210	15,823	28,106	23,993	7,454	16,658	16,858	29,967	22,648	7,186	15,404	14,827	21,066
Franklin.....	7,200	5,557	5,962	4,468	9,379	7,282	5,641	6,123	4,541	9,743	7,114	5,509	5,816	4,071	9,173
Freestone.....	16,816	13,806	17,402	11,792	20,492	17,246	14,262	17,837	12,208	21,705	16,711	12,999	16,979	11,032	20,196
Frisco.....	9,746	6,738	16,625	4,835	13,312	10,079	7,044	17,693	4,842	14,020	8,468	6,408	15,595	4,050	12,943
Gillespie.....	7,452	6,600	15,565	6,470	16,453	7,910	6,846	16,521	6,852	17,328	7,408	6,524	15,355	6,185	16,193
Goliad.....	9,067	9,645	11,608	9,573	13,451	8,918	8,277	11,642	9,611	13,397	9,006	9,509	11,445	9,449	13,172
Gonzales.....	28,817	20,342	30,619	19,778	37,339	30,530	28,318	32,882	21,147	39,838	26,197	25,874	29,898	19,409	36,946
Grayson.....	54,692	34,447	34,268	39,120	36,992	56,018	34,390	34,398	38,839	36,325	51,583	33,654	32,843	31,628	31,063
Gregg.....	8,000	6,836	7,248	3,261	9,970	7,902	6,474	7,307	3,153	7,020	7,793	6,271	7,084	3,029	6,866
Grimes.....	20,806	14,084	13,146	10,873	25,789	21,738	14,656	14,066	11,341	27,244	20,679	13,518	12,927	9,830	24,674
Guadalupe.....	23,514	32,767	47,080	20,939	43,679	25,122	33,813	50,570	22,303	46,902	22,883	31,061	46,729	20,267	43,172
Hall.....	19,740	10,567	17,088	18,061	11,807	20,119	10,622	17,235	18,715	12,810	16,611	7,139	10,878	13,135	6,815
Hamilton.....	15,608	11,472	31,982	15,429	36,079	16,307	11,672	34,234	16,483	39,574	15,280	10,686	30,949	14,653	29,698
Hardeman.....	12,932	10,304	9,885	8,705	9,653	13,413	10,409	10,195	9,203	10,385	12,339	8,389	5,859	7,165	5,314
Harris.....	3,217	2,476	4,194	3,688	5,570	3,349	2,532	4,499	3,933	5,834	3,008	2,239	3,797	3,256	5,024
Harrison.....	17,837	17,394	16,844	7,853	18,151	18,094	16,985	17,221	7,694	18,236	17,589	10,694	16,072	6,851	17,487
Haskell.....	13,637	14,680	18,605	21,481	10,801	14,403	15,050	19,009	23,204	11,678	12,774	8,977	9,750	18,806	6,799
Hays.....	17,728	23,837	33,235	14,301	27,001	18,877	24,851	35,637	15,404	28,701	17,248	22,155	32,859	13,432	26,407
Henderson.....	13,790	9,984	8,992	5,681	10,097	14,033	9,066	9,339	5,829	10,982	13,777	9,277	8,912	6,400	10,638
Hidalgo.....	2,103					2,142					2,083				
Hill.....	71,400	67,079	100,570	65,247	129,545	74,137	68,099	107,976	68,501	139,719	70,720	58,729	96,328	61,489	123,280
Hood.....	9,508	5,757	18,431	9,989	21,643	5,603	18,703	10,147	12,287	22,288	8,827	4,000	17,198	9,468	18,211
Hopkins.....	29,404	21,668	25,532	17,459	35,243	29,657	21,301	20,141	17,437	36,664	29,356	20,509	25,212	10,027	33,569
Houston.....	22,087	18,995	17,448	9,333	20,049	23,290	20,087	18,171	9,672	20,981	21,465	18,185	16,307	7,882	19,082
Howard.....	1,576	3,212	7,192	3,595	4,760	1,546	3,107	7,298	3,601	5,077	1,490	2,054	6,092	2,572	2,722
Hunt.....	63,419	53,043	63,906	33,315	60,218	64,478	52,611	65,022	84,837	62,465	62,800	50,008	61,691	29,294	54,186
Jack.....	8,985	7,265	15,348	6,625	19,270	9,319	7,952	10,105	6,797	20,546	8,537	6,430	12,874	6,219	14,777
Jackson.....	2,598	1,150	3,498	3,030	4,003	2,809	1,156	3,716	3,174	4,237	2,501	1,100	3,377	2,815	8,850
Jasper.....	290	361	507	629	960	274	329	833	607	900	210	303	817	561	928
Johnson.....	38,375	20,578	55,628	35,240	63,190	40,202	21,664	59,704	30,592	66,965	35,330	16,205	52,341	32,656	55,661
Jones.....	19,507	22,169	31,007	36,812	36,504	14,307	22,998	32,871	58,711	39,731	12,654	17,977	19,895	33,584	29,410
Karnes.....	22,559	10,120	22,272	14,680	24,282	22,230	10,367	22,850	14,846	24,880	22,438	16,972	22,049	14,432	27,890
Kaufman.....	53,065	43,130	60,608	28,258	51,510	55,563	44,949	61,300	29,068	53,862	52,519	39,374	57,931	25,783	47,817
Kendall.....	1,428	1,501	2,847	1,408	3,712	1,513	1,604	3,056	1,492	3,880	1,423	1,452	2,603	1,368	3,030
Kent.....	2,863	1,018	1,750	1,851	2,705	2,920	980	1,769	1,981	2,921	2,708	827	1,275	1,410	876
Kerr.....	213	353	1,364	746	1,755	222	373	1,458	780	1,842	213	340	1,305	693	1,677
Knox.....	8,226	12,402	10,661	13,463	10,218	8,284	12,300	11,692	14,300	11,074	7,509	8,598	3,826	11,049	6,374
La Salle.....	1,418	1,126	1,963	442	1,935	1,424	1,148	1,984	437	2,095	1,018	1,045	1,852	260	1,836
Lamar.....	64,647	44,612	43,224	31,892	66,036	67,297	45,790	45,411	62,645	69,619	62,873	43,264	40,742	27,237	59,242
Lampasas.....	4,701	4,025	11,027	6,514	12,880	4,946	4,158	11,700	6,971	13,838	4,664	3,939	10,912	6,210	11,778
Lavaca.....	30,474	19,999	24,750	22,153	40,171	33,485	21,510	27,035	24,023	44,047	29,025	19,096	24,010	20,924	39,382
Lee.....	10,095	8,893	11,219	7,109	15,911	10,830	9,324	11,983	7,557	17,008	9,832	7,836	10,946	6,770	15,563
Leon.....	17,479	15,298	13,084	9,510	16,597	18,000	15,526	13,736	9,789	17,468	17,322	14,548	12,694	8,463	15,087
Liberty.....	900	598	901	1,204	2,147	950	567	832	1,167	2,145	612	340	845	933	2,008
Limestone.....	53,614	48,770	70,525	36,253	72,320	55,566	50,184	74,926	37,355	70,283	53,641	47,181	69,850	34,812	70,219
Llano.....	2,572	2,919	4,661	2,839	4,944	2,062	2,990	5,139	3,003	5,196	2,429	2,770	4,738	2,027	4,803
McCulloch.....	9,389	14,523	36,733	6,535	22,103	9,997	14,927	39,253	6,879	23,662	9,124	16,113	30,832	5,596	15,689
McLennan.....	85,855	84,093	115,395	69,078	120,236	91,255	88,093	124,290	73,785	127,502	86,932	74,341	112,859	66,507	111,397
Madison															

TABLE 17.—QUANTITY OF COTTON, EXCLUSIVE OF LINTERS, GINNED FROM THE CROPS OF 1906 TO 1910, BY COUNTIES—Continued.

TEXAS—Continued.

COUNTY.	TOTAL NUMBER OF BALES GINNED (COUNTING ROUND AS HALF BALES)—					NUMBER OF EQUIVALENT 500-POUND BALES—					NUMBER OF BALES GINNED TO DEC. 13 (COUNTING ROUND AS HALF BALES)—				
	1910	1909	1908	1907	1906	1910	1909	1908	1907	1906	1910	1909	1908	1907	1906
Panola.....	17,982	14,197	12,677	3,179	8,403	18,065	13,913	13,042	3,082	8,463	17,773	12,970	12,250	2,812	8,249
Parker.....	23,835	18,109	36,230	19,623	43,890	24,121	17,794	37,507	19,925	46,200	22,577	15,009	35,064	18,652	37,722
Polk.....	3,492	3,210	3,372	1,949	4,708	3,497	3,076	3,890	1,923	4,785	3,438	2,833	3,085	1,518	4,465
Rains.....	6,119	3,341	4,173	2,103	3,250	6,421	3,332	4,323	2,159	3,302	6,104	3,179	4,136	1,940	3,204
Red River.....	33,289	19,722	17,766	19,618	31,510	34,338	19,951	18,274	20,042	32,606	32,658	19,595	17,434	17,016	27,896
Robertson.....	39,680	33,073	36,187	23,680	49,804	41,233	34,573	38,048	23,764	45,736	30,148	31,063	35,071	21,960	41,335
Rockwall.....	20,787	14,407	27,016	12,532	23,202	21,286	14,540	27,771	12,768	24,371	20,402	13,525	25,726	11,056	21,044
Runnels.....	10,277	25,070	52,790	15,832	35,503	10,501	27,304	55,013	16,934	35,525	9,762	22,952	41,650	12,167	21,655
Rusk.....	22,650	16,245	15,092	6,680	12,776	21,844	15,472	15,607	6,360	12,500	22,312	15,030	14,011	5,952	12,259
Sabine.....	2,433	2,355	2,814	1,207	2,034	2,409	2,258	2,710	1,165	2,017	2,269	2,195	2,580	977	1,832
San Augustine.....	6,021	4,463	4,683	1,601	3,402	5,972	4,285	4,734	1,575	3,409	5,951	4,384	4,500	1,431	3,272
San Jacinto.....	4,127	3,223	3,730	2,612	3,353	4,245	3,138	3,763	2,611	5,439	4,084	3,106	3,561	2,104	5,039
San Patricio.....	6,663	4,343	6,787	4,036	4,983	6,898	4,554	7,232	4,350	5,300	6,655	4,276	6,779	4,030	4,369
San Saba.....	7,715	6,847	19,302	5,631	18,141	7,919	6,962	20,693	5,840	19,203	7,582	6,742	18,055	5,163	16,052
Schleicher.....	96	101	1,042	254	816	91	194	1,096	267	844	96	163	903	167	465
Scurry.....	7,700	5,219	9,785	14,253	14,421	7,856	5,278	10,008	14,775	15,335	7,286	4,233	6,865	10,668	8,197
Shackelford.....	2,291	2,714	7,098	2,289	4,447	2,300	2,751	7,436	2,378	4,749	2,024	2,378	6,653	1,935	3,034
Shelby.....	15,917	12,784	13,097	3,537	8,229	15,112	11,940	13,288	3,371	8,064	15,563	12,472	12,507	2,998	7,820
Smith.....	30,720	25,501	21,785	13,974	25,315	30,579	24,731	21,633	13,795	25,538	30,283	23,456	20,982	11,734	24,224
Somervell.....	2,801	1,770	4,513	2,620	5,932	2,808	1,730	4,740	2,678	6,303	2,634	1,064	4,422	2,404	4,953
Starr.....	2,055	4,192	3,599	1,834	2,475	2,618	4,278	3,633	1,858	2,616	2,376	3,459	3,380	1,561	2,159
Stephens.....	2,908	2,653	10,740	3,936	13,456	2,694	2,706	11,442	4,188	14,532	2,794	2,244	10,074	3,663	10,301
Stonewall.....	4,201	3,796	5,509	5,368	7,332	4,235	3,798	5,439	5,595	7,919	4,077	2,878	3,936	4,825	4,320
Tarrant.....	27,737	14,508	37,254	21,181	37,142	28,404	14,738	38,970	21,736	39,100	26,560	12,366	35,336	19,507	33,223
Taylor.....	9,794	21,711	35,673	24,793	41,739	9,955	22,453	37,420	26,377	43,934	9,055	19,748	29,303	22,664	30,825
Throckmorton.....	4,651	2,839	8,000	2,512	7,264	4,905	2,981	8,533	2,645	7,831	4,480	2,347	7,326	2,337	4,053
Titus.....	12,555	9,230	10,993	8,017	16,751	12,681	9,025	11,090	7,988	17,243	12,087	9,070	10,575	7,258	16,103
Tom Green.....	1,437	3,012	10,931	2,805	7,394	1,361	3,090	11,502	2,947	7,801	1,377	2,646	9,872	1,988	4,875
Travis.....	41,732	48,011	62,386	35,119	67,234	45,428	50,465	66,212	37,847	72,636	40,278	48,919	61,570	33,171	64,577
Trinity.....	5,311	3,816	4,107	2,752	5,474	5,530	3,798	4,237	2,812	5,075	5,253	3,706	3,965	2,108	5,293
Tyler.....	969	941	1,064	1,032	1,629	947	876	1,619	1,014	1,611	959	846	1,460	753	1,536
Upsbur.....	12,990	12,612	12,164	6,835	15,950	12,284	12,052	11,694	6,403	15,775	12,758	11,998	10,671	5,709	15,260
Uvalde.....	3,382	2,988	6,311	1,040	3,313	3,540	3,107	6,605	2,017	3,433	3,343	2,949	6,107	1,920	3,123
Van Zandt.....	24,170	17,707	22,966	14,900	23,410	24,900	18,352	24,006	15,451	23,630	20,762	15,315	21,335	12,005	22,233
Victoria.....	11,437	9,697	10,463	9,206	16,143	12,147	10,181	11,185	9,733	10,363	11,413	9,444	10,237	9,044	15,845
Walker.....	10,067	8,089	9,240	5,724	12,960	10,480	8,225	9,632	5,940	13,722	9,039	7,649	8,645	4,788	12,094
Waller.....	12,344	6,200	6,953	10,284	18,725	12,675	6,343	7,337	10,702	19,474	12,266	5,977	6,770	9,894	18,034
Washington.....	30,849	22,211	21,340	10,405	37,763	32,996	22,993	22,519	17,091	40,323	30,043	20,595	20,975	15,353	36,704
Wharton.....	15,333	2,393	13,267	15,873	20,581	16,091	2,476	14,446	16,996	21,560	15,117	2,381	13,066	14,620	19,575
Wheeler.....	2,236	682	1,315	2,478	1,145	2,185	692	1,301	2,350	1,205	2,125	504	229	600	300
Wichita.....	8,657	7,805	8,674	6,838	1,715	8,756	7,855	8,858	6,586	1,822	8,383	7,096	6,251	5,580	1,304
Wilbarger.....	20,806	15,059	14,887	14,189	10,830	21,329	15,209	15,152	14,867	11,553	19,040	12,630	8,363	11,135	6,232
Williamson.....	78,708	78,104	116,829	69,737	125,517	79,616	83,334	127,799	75,727	136,528	71,180	69,322	115,849	67,279	119,555
Wilson.....	15,029	13,503	21,639	10,654	17,625	15,555	13,625	21,940	10,984	18,076	14,354	13,356	20,710	10,479	17,524
Wise.....	23,645	21,064	28,289	24,813	38,233	24,241	21,435	20,047	25,518	40,456	22,842	18,534	24,678	21,268	32,304
Wood.....	18,005	15,517	14,502	10,814	17,875	15,371	15,219	14,647	10,004	18,132	18,734	14,545	14,071	9,818	17,367
Young.....	12,211	13,093	24,535	7,176	23,242	12,565	13,423	25,627	7,443	24,943	11,622	11,441	19,291	6,672	16,164
All other.....	10,009	7,306	17,071	14,429	22,076	10,209	7,872	17,966	14,765	22,770	7,394	6,051	12,650	7,067	11,451

VIRGINIA.

The state.	16,095	10,740	13,113	9,602	14,596	14,815	10,095	12,326	9,223	13,862	13,952	9,493	11,833	6,787	12,117
Brunswick.....	3,336	2,704	2,937	2,302	3,222	3,043	2,617	2,589	2,185	2,989	2,877	2,632	2,785	1,584	2,621
Greensville.....	2,708	2,218	2,607	1,453	2,524	2,433	2,137	2,473	1,421	2,447	2,367	1,846	2,262	1,004	2,092
Mecklenburg.....	1,623	992	1,143	865	1,079	1,406	801	1,018	775	944	1,433	901	1,020	655	902
Nansemond.....	1,553	661	1,059	799	1,267	1,433	662	1,120	797	1,186	1,368	611	943	538	1,167
Southampton.....	4,894	2,757	3,735	3,003	4,209	4,477	2,555	3,531	2,909	4,173	4,253	2,395	3,430	2,255	3,531
Sussex.....	833	594	851	674	1,065	815	547	791	541	972	606	460	679	364	818
All other.....	1,093	730	781	611	1,230	1,038	686	804	595	1,146	953	648	664	387	986

WORLD'S PRODUCTION OF COTTON.

The area in which cotton can be successfully grown is vast, but owing to the varying conditions in the sections where it will grow its production is found unprofitable except in well-defined areas. Because of the insufficiency of the supply of this fiber to meet fully the demands of the trade and because of the desire of European manufacturers to be independent of the influences due to the preponderance of the American crop, many efforts have been made in recent years to extend the cultivation of cotton to new fields. While failure has often resulted, success has attended these efforts in a number of countries, among which may be mentioned Russian Turkestan, Peru, British India, and Persia. In these countries, especially the first two, its extension has been taken up in a more serious manner—irrigation works have been built and improved machinery installed for treating the fiber. Efforts have been made to foster the cultivation of cotton in a number of other countries, but the United States still produces about two-thirds of the entire mill supply of the world. British India, Egypt, Russia, and China follow in order of importance.

The following table shows the production of cotton for mill consumption, by countries, for the years 1907 to 1910, inclusive:

TABLE 18.—Production of cotton for mill consumption, by countries: 1907 to 1910.

[The statistics for the United States were collected by this bureau. Those for other countries have been compiled from a number of sources, among them being: The Cotton Gazette, Liverpool; Mitsui & Co., Osaka; The Russian Cotton Committee, St. Petersburg; Herman Capello Co., New York; W. R. Grace & Co., New York and Lima; Commercial Intelligence Department of the Indian Government; and the United States Consular Reports.]

COUNTRY.	COTTON PRODUCTION FOR MILL CONSUMPTION. (BALES OF 500 POUNDS NET.)			
	1910	1909	1908	1907
Total.....	19,171,000	16,776,000	19,636,000	16,512,000
United States.....	11,483,000	9,863,000	13,002,000	10,582,000
British India.....	3,508,000	3,773,000	2,953,000	2,498,000
Egypt.....	1,535,000	911,000	1,275,000	1,236,000
Russia.....	900,000	720,000	846,000	620,000
China.....	725,000	600,000	600,000	426,000
Brazil.....	360,000	360,000	425,000	370,000
Peru.....	128,000	107,000	80,000	55,000
Mexico.....	135,000	125,000	140,000	70,000
Turkey.....	105,000	82,000	80,000	80,000
Persia.....	92,000	90,000	50,000	50,000
All other countries.....	200,000	195,000	189,000	165,000

The production of cotton in 1910, as measured by the factory supply—that is, the quantity entering into commercial channels—was 19,171,000 bales; in 1909 it was 16,776,000 bales; in 1908, 19,636,000 bales; and in 1907, 16,512,000 bales. The 1910 production for mill consumption represents an increase of 2,395,000 bales, or 14.3 per cent over the production in 1909—a decrease of 465,000 bales, or 2.4 per cent, from that of 1908, and an increase of 2,659,000 bales, or 16.1 per cent, from that of 1907. The average production of

cotton for the world during the past seven years has been approximately 18,085,000 bales, or 1,086,000 bales less than the production of 1910. It must be remembered that the figures of Table 18 relate to the world's yield of cotton for mill consumption and not the total production. Large quantities of the fiber grown in China, India, Persia, Russia, and other eastern countries and in South and Central America are consumed in the homes of the people and do not enter commercial channels. No accurate estimate can be made of the amount of this cotton. The world's production in 1910, shown in the table, amounted to 9,585,500,000 pounds, with an estimated value of about \$1,250,000,000.

To one viewing the figures shown in Table 18, it seems strange indeed that in 1790 the West Indies furnished about 70 per cent of the total cotton supply of the world, the Mediterranean countries 20 per cent, and Brazil 8 per cent. The quantity of cotton supplied by the United States and British India combined was at that time less than 1 per cent of the total, while its cultivation had not been begun in Egypt. In 1910 the United States contributed 59.9 per cent of the total quantity of commercial cotton; British India, 18.3 per cent; Egypt, 8 per cent; and Russia, 4.7 per cent. Of the countries that were prominent in the production of cotton in 1790, Brazil and Asiatic Turkey alone have retained any importance.

DIAGRAM 2.—Percentage of the world's mill supply of cotton contributed by each country: 1910.

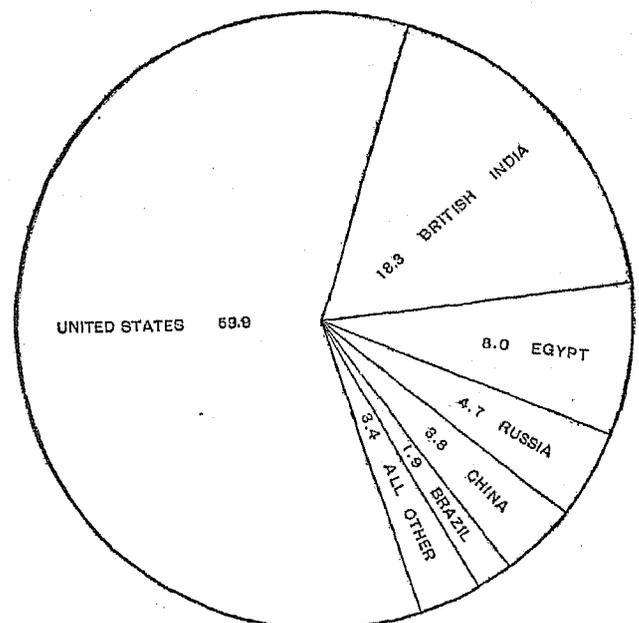


Diagram 2 presents forcibly the relative importance of the several countries in the production of cotton.

UNITED STATES.

Cotton area of the United States.—The greatest cotton-growing section in the world, both in area and production, is located in the southeastern part of the United States. It includes small portions of Virginia, Kentucky, Missouri, Kansas, and New Mexico, as well as the states lying to the southward. This cotton-producing area is about 1,500 miles long from east to west and about 500 miles in width. Within the past few years the cultivation of cotton has been undertaken in Arizona and California, and considerable success has attended its growth in the latter state. The total area of the counties in which cotton was ginned from the crop of 1910 is approximately 625,000 square miles, or about 400,000,000 acres. Of this, only about 1 acre in every 13 was devoted to cotton. A full statistical record for the United States has been presented on earlier pages.

Insular territories of the United States.—At one time the cultivation of cotton in Porto Rico formed an important industry, and records show that in 1837 five million pounds were exported. From that time the production gradually fell off, but increased during the Civil War in the United States. Since 1870 no cotton has been exported, and at present its cultivation on the island has been practically abandoned.

Cotton growing was introduced into the Hawaiian Islands in 1817 by the Spaniards, and a cotton mill was erected in 1835. Beyond demonstrating the possibility of growing the plant, very little was accomplished in the production of the staple. Although the climate and soil are suited to its cultivation and the better varieties thrive, the use of the land for more remunerative crops makes its extensive production in these islands improbable.

Cotton was first introduced into the Philippine Islands by the Spaniards. A long-staple variety was cultivated, from which a fine grade of cloth was made and exported. Recently, however, the production has been very small and of an inferior grade. It is estimated that the crop of 1910 furnished about 3,500 bales of 500 pounds each to the total supply of cotton for mill consumption.

BRITISH INDIA.

The cotton plant is indigenous to India, and its fiber has been employed by the people of that country for making clothing for thousands of years. This production, however, did not attain commercial importance in the modern sense until its culture there, as in many other countries, felt the stimulating effect of the high prices for cotton which resulted from the demoralized conditions caused by the Civil War in the United States.

The following table presents statistics of acreage, production, and yield per acre in India since 1897, together with the average for the period:

TABLE 19.—Cotton acreage, production, and yield per acre in British India: 1897 to 1910.

YEAR.	Acreage planted in cotton.	COTTON PRODUCTION FOR MILL CONSUMPTION.	
		Total (500-pound bales).	Average per acre (pounds).
1910.....	21,948,000	3,508,100	80
1909.....	20,521,000	3,772,800	92
1908.....	19,999,000	2,952,800	73
1907.....	21,630,000	2,497,600	58
1906.....	22,488,000	3,920,400	88
1905.....	20,401,000	3,389,600	83
1904.....	19,918,000	3,060,800	77
1903.....	18,025,000	2,863,714	70
1902.....	10,581,046	3,000,439	90
1901.....	14,506,295	2,648,586	91
1900.....	14,231,150	2,162,918	76
1899.....	11,884,576	1,674,817	70
1898.....	14,002,892	2,512,104	86
1897.....	13,683,487	2,122,908	78
Average.....	17,887,103	2,863,832	80

The statistics of the production of cotton in British India are estimates prepared by the Indian Government. As a rule, these estimates are too low, for the figures of the net exports and of cotton consumed in the country exceed the estimates of production. This condition is recognized by the Indian Government in its annual publications, but no revision of the production figures is made.

According to the statistics of Table 19, the area devoted to the growth of cotton in 1910 was 21,948,000 acres, an increase of 1,427,000 acres, or 7 per cent, over the acreage for 1909. The acreage for 1910 exceeded the average for the 14-year period by 4,060,897 acres. The crop of 1910 amounted to 3,508,100 bales of 500 pounds each, which is 264,700 bales, or 7 per cent, less than the yield for 1909, though an increase of 644,268 bales over the average for the 14-year period. It will be observed from the statistics of the table that, in the past year, though the acreage has increased and the production decreased, the average per acre is the same as for the 14-year period.

The next tabular statement shows the cotton acreage and production in India, by provinces, for 1910, 1909, and 1908.

The crop of 1910 was somewhat smaller than that of 1909, which was a phenomenally large one, and is disappointing when we consider that the world's production for the past year was still short of the quantity needed for the annual consumption. The decrease in the production is due largely to weather conditions, the rainfall in some portions of the country having been excessive and in others insufficient.

The grade of cotton grown in India 20 years ago was superior to that produced 5 years ago. Investigation shows that the deterioration was due to the mixture of seeds because of carelessness in seed selection, and to a constant and profitable demand for short-staple cotton. The Indian Government has established experiment stations, and, through seed selection, has developed a long-staple variety which promises excel-

lent results. In some provinces American varieties, which yield well and maintain their characteristics for several years, have been acclimated, while in Sind Egyptian cotton has been grown to some extent. The Indian farmer recognizes the efforts which the Government is making to improve the quality of the cotton, but inasmuch as the demand heretofore has been for quantity rather than quality, short-staple cotton is preferred because it produces more lint. The cultivation of the long staple requires more time and care for which the farmer is not repaid, and the yield per acre is smaller. In some of the native states there is an export duty on cotton. This acts as a check to the extension of the industry, because the selling prices do not compare favorably with those of other states.

PROVINCE.	Year.	Acreage planted in cotton.	Cotton production for mill consumption (500-pound bales).
Total.....	1910	21,948,000	3,508,100
	1909	20,521,000	3,772,800
	1908	19,999,000	2,952,800
Bombay.....	1910	6,161,000	1,123,200
	1909	5,794,000	1,140,800
	1908	5,618,000	888,800
Central Provinces and Berar.....	1910	4,393,000	648,000
	1909	4,167,000	856,000
	1908	4,176,000	612,800
Hyderabad.....	1910	3,566,000	328,000
	1909	3,401,000	368,800
	1908	2,902,000	245,600
Madras.....	1910	1,810,000	182,400
	1909	1,593,000	144,000
	1908	1,576,000	129,000
Punjab.....	1910	1,385,000	251,300
	1909	1,436,000	316,800
	1908	1,562,000	259,200
United Provinces.....	1910	1,343,000	277,600
	1909	1,241,000	307,200
	1908	1,392,000	340,800
Central India.....	1910	1,237,000	187,200
	1909	1,044,000	175,200
	1908	978,000	115,200
Baroda.....	1910	806,000	232,800
	1909	675,000	188,000
	1908	623,000	136,800
Rajputana.....	1910	465,000	114,400
	1909	464,000	118,400
	1908	389,000	68,200
Sind.....	1910	267,000	75,200
	1909	214,000	83,200
	1908	259,000	80,800
All other provinces.....	1910	515,000	88,000
	1909	516,000	74,400
	1908	524,000	80,000

EGYPT.

Aside from the grain and vegetable crops, which are chiefly consumed in the country, the great staple product of Egypt is cotton. Practically the entire crop is exported, and the staple is the chief source of income for that country. The mild climate is especially adapted to cotton culture, the season being early and long enough to allow the plant to mature. The gathering of the crop is not interfered with by storms and rain, so there is no loss or damage to the fiber from

these causes, as is often the case in the United States Egyptian cotton is characterized by length, strength, and uniformity of fiber, and excels every other variety, except sea-island.

The following table shows the acreage, production, and yield per acre in Egypt since 1898:

TABLE 20.—Cotton acreage, production, and yield per acre in Egypt: 1898 to 1910.

[Compiled from a number of sources, among which are: Herman Capello Co., New York; Cotton Facts, by Alfred B. Shepperson; and Reports of the United States Department of Agriculture.]

YEAR.	Acreage.	COTTON PRODUCTION FOR MILL CONSUMPTION.	
		Total (500-pound bales).	Average per acre (pounds)
1910.....	1,895,000	1,535,000	405
1909.....	1,757,000	1,911,000	316
1908.....	1,950,000	1,275,000	327
1907.....	1,950,000	1,290,000	332
1906.....	1,850,000	1,400,000	378
1905.....	1,900,000	1,250,000	329
1904.....	1,850,000	1,258,000	340
1903.....	1,750,000	1,289,000	368
1902.....	1,700,000	1,157,000	340
1901.....	1,650,000	1,262,000	382
1900.....	1,600,000	1,075,000	336
1899.....	1,500,000	1,295,000	432
1898.....	1,450,000	1,112,000	383

According to the statistics of Table 20, 1,895,000 acres were devoted to the cultivation of cotton in 1910, compared with 1,757,000 acres in 1909, an increase of 8 per cent. The cotton crop of 1909 was the smallest grown in years, owing to infiltration, the ravages of the boll weevil and other insects, and the high prices of grain and clover, which induced the planting of those crops. A comparison of the production of 1909 with that of 1910, which amounted to 1,535,000 bales of 500 pounds each, shows an increase of 624,000 bales, or 68 per cent. The large yield for Egypt in 1910 broke the record of cotton production in that country, and was due chiefly to the very favorable season, the average yield per acre being 405 pounds in 1910, as against 316 in 1909.

RUSSIA.

The production of cotton in Russia in 1910 amounted to 900,000 bales of 500 pounds each, which was more than half of the annual requirements of the Russian mills. The crop was one-fourth larger than that of the preceding year, and was the largest ever grown in the country. Nearly the entire production of Russia is grown in Turkestan, the Ferghana Valley alone producing more than one-half of the total.

Cotton is grown in the various river valleys and its cultivation is limited to places accessible to irrigation. The climate is dry, with high summer temperatures, mild winters, and with scarcely any rainfall during the crop-making months. Many of the irrigation works were built centuries ago, and because of their

inadequacy considerable areas suitable for growing cotton are prevented from being brought under cultivation. While only 35 to 40 per cent of the land is devoted to cotton cultivation at the present time, it seems probable that this proportion can be increased largely when railway connections are made with the cereal-producing regions of the country. Land in the cotton district now in wheat can then be planted in cotton, and the foodstuffs can be brought in from other sections.

Experiments have been made with a number of imported seeds, but the upland American seems to have given the best results. A large proportion of the cotton grown at the present time is either of the American varieties or new varieties derived therefrom. Cotton is also grown in Transcaucasia, where the area devoted to it has been estimated at 95,000 acres and the production at 60,000 bales of 500 pounds each.

CHINA.

The full production of cotton in China can not be estimated accurately, because large quantities grown in that country are consumed in the homes of the people without entering into commercial channels or becoming a factor in the supply of cotton for mill consumption. According to the best advice, it seems probable that the exports of the crop of 1910 will amount to as much as 425,000 bales, compared with 250,000 bales for the 1909 crop. The cotton factories in China require about 300,000 bales, which amount, together with the estimated exports, indicates the production of about 725,000 bales of commercial cotton in that country from the crop of 1910. The Chinese Government has recently been making experiments in growing foreign varieties of cotton, with a view to increasing the production. Cotton grown from American seed has proved satisfactory, the fiber being of a better quality than the native product. In these experiments the country is receiving the active cooperation of the Japanese, who see an opportunity of securing cotton almost equal to the American fiber at a lower price and nearer home.

BRAZIL.

The production of cotton in Brazil in 1910 is estimated at 360,000 bales of 500 pounds each. A considerable portion of the production is consumed in the Brazilian mills. Extensive areas in the country are suited to cotton growing, but the greater portion of the crop at the present time is grown in the valley of the San Francisco River. The methods of cultivating the crop in many sections are still crude, although much progress is being made and better

machinery and better transportation facilities are being provided.

PERU.

Cotton has been grown since the earliest times in Peru, although the production was never large until within the last 10 years. In 1902 the crop amounted to 36,500 bales of 500 pounds each; in 1906, 55,000 bales; and in 1910, 128,000 bales. While several varieties of cotton are grown in the country, the cotton designated as "rough Peruvian" is best known, because of its use for mixing with wool. There is a great demand for this variety of cotton in all wool-manufacturing countries, and especially in England. Efforts have been made to grow this rough cotton in the United States, but without success, largely because of climatic conditions, which limit the growth of the plant to one year instead of permitting it to develop during a number of years, as in Peru.

MEXICO.

The season of 1910 was more favorable to the cultivation of cotton than any for several years past, and the production amounted to 135,000 bales of 500 pounds each. More than three-fourths of the crop is raised in the Laguna district, which includes portions of the states of Coahuila, Durango, and Chihuahua, in which the production depends entirely upon irrigation. The fiber is of good length and strength, but is thinner, less silky, and not so clean as that produced in the United States.

TURKEY.

The production of cotton in Turkey in 1910 is estimated at 105,000 bales of 500 pounds each, the largest crop grown there in many years. Recently considerable attention has been given to the growing of cotton in this country, the higher price of the staple, as well as the opening up of new portions of the country by railways, contributing to this result. It is believed that considerable advance will be made in the growth of cotton in this country and that the quantity may be materially increased.

OTHER COUNTRIES.

Cotton for mill consumption was produced in a number of other countries, among which are Persia, with 92,000 bales of 500 pounds each; Africa, other than Egypt, 50,000 bales; Korea, 20,000 bales; Indo-China, 20,000 bales; Dutch East Indies, 12,000 bales; Greece, 12,000 bales; and Haiti, 11,000 bales. Small quantities have been furnished by a number of other countries, but the aggregate is not large.

SUPPLY AND DISTRIBUTION OF COTTON FOR SPECIFIED PERIODS IN 1909, 1910, AND 1911.

After the practicability of the method of collecting statistics of cotton production from the ginners had been demonstrated, Congress, in a joint resolution, approved February 9, 1905, authorized and required the Director of the Census to prepare an additional series of reports relating to the supply and distribution of cotton. Under this resolution reports have been compiled since 1905, showing, for the year ending August 31, the supply of cotton, made up of that on hand at the beginning of the year, that ginned during the year, and that imported during the year. The reports show also the distribution of the cotton into the quantity exported, that consumed in the country, and the amount of stocks left at the close of the year. The next step in the extension of the series of cotton reports was taken when a joint resolution of Congress, approved March 2, 1909, directed the Bureau of the Census to prepare three additional reports of the stocks of cotton in this country summarized as of November 1, January 1, and March 1.

The following excerpt from the report of the congressional committee in recommending the passage of the resolution last referred to will lend interest to this new series of cotton reports:

The purpose sought by these stock reports is to afford reliable information for producers, manufacturers, and others as to the quantity of cotton available on the dates to which the reports relate, thereby serving as a guide for the producer in disposing of his product and in directing his plans in regard to the succeeding crop; also furnishing the manufacturer with desired information as to the available supply of cotton which may be of assistance to him in purchasing or in contracting for the manufacture and delivery of goods.

The effect of the resolution, if enacted into law, would be, it is believed, to reduce the element of speculation in cotton, as the statistics would remove doubt as to the cotton situation and afford needed information for all concerned.

Because of the large number of agencies by which the cotton crop is handled and of the scattered condition of stocks in the midst of the season, it is practically impossible to measure accurately and distribute by classes of holders the quantity of cotton held. To illustrate: During the ginning season about 1,500,000 growers must be consulted for individual holdings, and about 30,000 ginners, 2,000 warehouses and other public storage places, 2,000 manufacturers, and numerous transportation companies, local buyers, merchants, and others must be canvassed. To consult all of these satisfactorily would require more

time and money than was contemplated by the framers of the law. Hence the bureau has devised and pursued the following plan in preparing its cotton-stock reports this season. In connection with the regular periodical ginning reports returns of the quantity of cotton consumed and stocks held were secured from the manufacturers and warehousemen for the dates fixed for these reports. The supply of cotton was then computed by associating the quantity on hand at the beginning of the period with that ginned and the net imports during the period. The distribution was made by associating the statistics of the quantity of cotton consumed during the period with those of exports and those held by manufacturers and in independent warehouses and other public storage places; the result obtained by subtracting the sum of these items from the total supply is taken as measuring the quantity of stocks held elsewhere. The result of this grouping for the reports issued during the six-month period ending with February, 1911, are shown in the following statement:

Supply and distribution of cotton in the United States for periods indicated.

[Quantities are given in running bales, except that round bales are counted as half bales and foreign cotton has been reduced to equivalent 500-pound bales. Linters are included.]

	Sept. 1, 1910, to Feb. 28, 1911.	Sept. 1, 1909, to Feb. 28, 1910.	Sept. 1, 1910, to Oct. 31, 1910.	Nov. 1, 1910, to Dec. 31, 1910.	Jan. 1, 1911, to Feb. 28, 1911.
Supply:					
Total.....	12,788,772	11,575,330	8,045,964	9,077,217	6,541,071
Ginnings.....	11,612,951	9,997,067	6,992,942	3,738,592	881,447
Stocks at beginning of period.....	1,040,040	1,483,555	1,040,040	5,291,945	5,583,535
Net imports.....	135,781	93,778	12,982	46,710	76,089
Distribution:					
Total.....	12,788,772	11,575,330	8,045,964	9,077,217	6,541,071
Exports.....	6,338,468	4,599,682	2,003,359	2,670,551	1,064,528
Consumption.....	2,402,232	2,539,399	750,630	823,131	828,471
Stocks at end of period.....	4,048,072	4,436,249	5,291,945	5,583,535	4,048,072

Of the total supply of cotton for the six months ending February 28, 1911, amounting to 12,788,772 bales, 2,402,232 bales, or 19 per cent, were consumed in the United States, and 6,338,468 bales, or 49 per cent, were exported, while 4,048,072 bales, or 32 per cent, remained in this country at the close of the period. It may be stated in this connection that of the supply for the year ending August 31, 1910, the proportion consumed in the United States was 39 per cent; the

proportion exported, 52 per cent; and the proportion remaining in the country, 9 per cent. The quantity of cotton imported into the United States during the six-month period ending February 28, 1911, was 68,369,910 pounds, equivalent to 136,740 bales of 500 pounds each, and valued at \$15,241,680. Of these imports, 3,134,281 pounds, valued at \$577,646, came from Peru; 3,820,206 pounds, valued at \$430,986, from China; 793,270 pounds, valued at \$81,228, from India; and 56,370,982 pounds, valued at \$13,313,621, from Egypt. The remainder, 4,251,171 pounds, valued at \$838,199, represents the quantity and value of all other cotton imported during the period. The difference between the imports and net imports is accounted for by 479,503 pounds, or 959 bales, of reexported foreign cotton. The consumption of cotton during the six-month period ending February 28, 1911, amounted to 2,402,232 running bales, distrib-

uted according to locality as follows: Cotton-growing states, 1,186,347 bales; New England states, 978,239 bales; and all other states, 237,646 bales. Included in the statistics of the total consumption for the six-month period are 76,617 bales of foreign cotton, distributed as follows: Egyptian, 62,903 bales of 500 pounds each; Peruvian, 5,580 bales; Indian, 2,930 bales; all other, 5,204 bales. The quantity of linter cotton consumed during the six-month period and included in the statistics amounted to 94,014 bales.

The following statement shows the stocks of cotton in the United States held at the close of business, February 28, 1911; December 31, October 31, and August 31, 1910, with comparative figures for February 28, 1910; December 31 and August 31, 1909, by manufacturers, in independent warehouses, and by other holders, in the cotton-growing states and in all other states:

COTTON STOCKS HELD ON SPECIFIED DATES, BY CLASS OF HOLDER.

[Quantities are given in running bales, except that round bales are counted as half bales and foreign cotton has been reduced to equivalent 500-pound bales. Linters are included.]

CLASS OF HOLDER.	COTTON STOCKS HELD (BALES).						
	Feb. 28—		Dec. 31—		Oct. 31, 1910	Aug. 31—	
	1911	1910	1910	1909		1910	1909
United States.....	4,048,072	4,436,249	5,583,535	5,301,612	5,291,045	1,040,040	1,483,555
Manufacturers:							
In cotton-growing states.....	583,512	668,998	610,559	741,320	355,476	121,349	186,458
In all other states.....	941,440	1,024,100	741,890	869,982	340,048	411,883	720,639
Independent warehouses:							
In cotton-growing states.....	1,471,116	1,671,350	2,737,346	2,293,234	2,249,217	155,871	242,747
In all other states.....	315,890	232,000	329,875	213,384	178,919	150,937	82,352
All other holders.....	736,114	839,801	1,163,865	1,183,692	2,168,285	200,000	251,389

The segregation of stocks shown in the statement is based upon location rather than ownership; for instance, cotton in warehouses owned and operated in conjunction with mills is classed as in possession of manufacturers, while cotton shown as in independent warehouses comprises all cotton stored in such warehouses, regardless of its ownership.

Table 21 distributes, by classes of holders and by states, the stocks of cotton held in the United States on specified dates.

Of the total stocks of cotton in the country at the close of business, February 28, 1910, 38.2 per cent was held by manufacturers, 42.9 per cent in independent warehouses, and 18.9 per cent by other holders. These proportions may be compared with

the following for February 28, 1911: 37.7 per cent held by manufacturers, 44.1 per cent in independent warehouses, and 18.2 per cent in possession of other holders. Thus practically the same proportion of the stocks of the country in each year was in the possession of the same classes of holders.

Stocks held by manufacturers were less on February 28, 1911, in almost every state than on the corresponding date in 1910. Only four states show increases this year in the holdings of the independent warehouses, namely, New York, with an increase of 107,981 bales over 1910; Oklahoma, with 50,992 bales; Pennsylvania, with 1,354 bales; and Tennessee, with 1,599 bales.

TABLE 21.—COTTON STOCKS HELD ON SPECIFIED DATES, BY STATES AND BY CLASS OF HOLDER.

[Quantities are given in running bales, except that round bales are counted as half bales and foreign cotton has been reduced to equivalent 500-pound bales. Linters are included.]

STATE AND CLASS OF HOLDER.	COTTON STOCKS HELD (BALES).						
	Feb. 28—		Dec. 31—		Oct. 31—	Aug. 31—	
	1911	1910	1910	1909	1910	1910	1909
United States.....	4,048,072	4,430,249	5,583,535	5,301,612	5,291,045	1,040,040	1,483,585
Manufacturers.....	1,524,952	1,693,098	1,352,449	1,611,302	665,524	533,232	907,007
Independent warehouses.....	1,787,006	1,908,850	3,067,221	2,500,018	2,423,136	306,808	325,099
All other holders ¹	736,114	828,291	1,163,865	1,189,302	2,162,385	200,000	251,389
Alabama:							
Manufacturers.....	76,309	77,268	75,488	74,206	47,309	13,949	18,511
Independent warehouses.....	108,130	130,944	226,471	232,499	246,584	4,634	13,319
Arkansas:							
Manufacturers.....	1,900	2,252	1,012	1,702	667	975	760
Independent warehouses.....	100,404	152,354	173,540	195,507	110,459	5,282	6,846
Connecticut:							
Manufacturers.....	60,595	62,015	49,862	58,106	27,406	31,874	53,081
Georgia:							
Manufacturers.....	130,868	143,560	137,501	167,692	74,867	23,273	33,204
Independent warehouses.....	273,875	309,736	539,177	399,612	507,707	23,450	50,568
Louisiana:							
Manufacturers.....	1,813	632	1,313	536	474	316	324
Independent warehouses.....	161,364	187,979	256,756	180,296	108,105	19,624	34,714
Maine:							
Manufacturers.....	67,030	73,307	49,907	52,778	23,374	24,330	51,350
Massachusetts:							
Manufacturers.....	466,269	527,691	374,524	449,777	166,848	209,852	355,474
Independent warehouses.....	13,491	25,713	7,808	23,756	6,360	7,875	18,404
Mississippi:							
Manufacturers.....	2,975	3,884	3,612	4,321	2,202	1,500	2,615
Independent warehouses.....	190,092	249,778	337,209	395,364	228,997	13,387	17,032
New Hampshire:							
Manufacturers.....	125,361	101,110	92,344	97,309	32,009	39,145	61,684
New Jersey:							
Manufacturers.....	15,217	19,752	8,802	15,929	8,197	10,147	15,395
Independent warehouses.....	(²)	(²)	(²)	(²)	(²)	(²)	(²)
New York:							
Manufacturers.....	63,663	61,286	52,443	51,261	22,381	14,586	31,384
Independent warehouses.....	269,854	157,873	293,920	140,527	165,456	139,539	61,401
North Carolina:							
Manufacturers.....	142,404	102,048	149,000	196,096	81,875	31,080	52,188
Independent warehouses.....	23,131	34,465	32,069	36,351	24,439	5,393	1,858
Ohio:							
Manufacturers.....	8,461	14,472	5,019	11,403	4,618	7,590	10,633
Independent warehouses.....	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Oklahoma:							
Manufacturers.....	508	1,550	694	1,481	469	930	564
Independent warehouses.....	72,088	21,036	164,682	59,714	218,476	849	137
Pennsylvania:							
Manufacturers.....	14,328	15,258	14,922	12,397	7,945	8,288	12,431
Independent warehouses.....	5,401	4,047	4,408	3,308	1,637	1,701	2,992
Rhode Island:							
Manufacturers.....	92,036	116,434	72,160	92,383	31,532	50,069	77,815
Independent warehouses.....	(²)	(²)	(²)	(²)	(²)	(²)	(²)
South Carolina:							
Manufacturers.....	154,405	197,348	177,582	214,885	121,738	33,955	53,149
Independent warehouses.....	96,923	108,151	138,741	120,126	106,164	7,330	10,425
Tennessee:							
Manufacturers.....	28,076	28,463	28,778	27,717	10,698	5,640	9,052
Independent warehouses.....	180,360	178,761	216,592	221,231	84,088	6,531	7,448
Texas:							
Manufacturers.....	11,964	12,722	10,351	14,183	4,575	1,723	3,097
Independent warehouses.....	236,608	255,000	562,382	404,327	536,971	66,786	78,667
Virginia:							
Manufacturers.....	20,308	25,946	14,359	25,764	5,407	4,154	6,494
Independent warehouses.....	23,713	20,191	26,144	33,038	11,969	411	4,418
All other states:							
Manufacturers.....	38,804	40,081	35,566	41,286	20,933	20,856	27,892
Independent warehouses.....	86,972	57,362	37,262	53,853	21,785	5,616	16,800

¹ Because of the method employed in arriving at the stocks in the possession of "All other holders," it is impracticable to distribute this cotton by states.
² Included in "All other states."

COTTONSEED PRODUCTS.

Prior to the introduction of oil mills cotton seed was considered practically worthless, except for planting. With the exception of small quantities used as fertilizer and as feed, it was for the most part dumped in remote places to rot or was thrown into running streams, practices which in time became such a menace to health as to call for legislative regulation in some states. Within a comparatively short period, however, that which was formerly looked upon as a waste has been utilized, furnishing a wholesome food product, a valuable feedstuff, and many other useful products.

The manufacture of cottonseed products on a commercial scale had its beginning in England, and as late as 1870 that country, with an annual crush of 200,000 tons, was the leading cottonseed-oil producing country in the world. Owing, however, to the heating and consequent deterioration to which cotton seed is liable in transit and in storage, a tendency naturally developed to locate the oil mills as near as practicable to the source of seed supply. This tendency, together with the varied and increasing uses for the products, accounts in a large measure for the phenomenal growth of the industry in the United States. The annual crush of cotton seed in this country is now nearly 4,000,000 tons.

In the United States a few mills had been built prior to 1840, but as late as 1860 there were only 7 operating, and in 1870 only 26. Since then the increase in the number of mills has been steady and rapid, until at the census of 1910 the number returned as having crushed seed during the preceding year was 810. The increase in the number of mills crushing cotton seed has been much greater in recent years than the increase in the quantity of seed crushed. Formerly the mills were generally located at railroad centers, had a large capacity, and secured their seed from wide areas. In later years, however, the demand for cottonseed products and the enterprise of business men in the smaller towns have resulted in the erection of many small mills that depend almost entirely upon the local seed supply, and thus serve the double purpose of creating a local market for the seed and providing cheaper feedstuffs than were available when freight and other charges were involved.

When the data for the census of 1910 were being collected, the manufacturers were requested to prepare their returns as far as practicable for the calendar year 1909; but inasmuch as the cottonseed-products industry is a seasonal one and the business year of the establishment rarely coincides with the calendar year, the returns received were not uniform, some

being for the calendar year 1909, some for the season of 1908-9, and some for the season of 1909-10. Although for this reason the statistics of the report do not show the status of the industry during any one season, they in the aggregate present the conditions during a 12-month period.

Table 22 is a comparative summary practically covering the development of the manufacture of cottonseed products in this country. It shows the number of establishments, number of persons engaged in the industry, primary horsepower, capital invested, salaries, wages, cost of materials, and value of products, by states, for the census years 1889, 1899, 1904, and 1909. The statistics presented in the table include those for establishments engaged primarily in extracting oil from the seed and in refining oil for sale. In the reports of the increasing number of cottonseed-oil mills which in connection with the crushing of the seed conduct some other business, such as the manufacture of fertilizers, ice, feed, and the like, it frequently happens that the figures for capital, labor, fuel, and materials are so closely interwoven as to make it impracticable to segregate the two industries. In such instances the reports include the entire operations of the establishment. In addition to the mills represented in this table, there were eight establishments engaged principally in some other business which reported the manufacture of cottonseed products. These mills consumed 28,700 tons of seed costing \$624,000, and had an output of cottonseed products valued at \$832,000.

As shown in Table 22; the number of establishments has increased from 119 in 1889 to 369 in 1899, 715 in 1904, and 817 in 1909. During the first decade covered by the table the number more than trebled and in the five-year period from 1899 to 1904 it almost doubled. Since that time the increase has been 102, or slightly more than 14 per cent.

In the number of persons engaged in the industry there was an increase from 12,658 in 1899 to 21,273 in 1909, or 68 per cent. The state from which the largest number has been reported in 1909 is Texas, which is closely followed by Georgia and Mississippi. In the country as a whole the total number of proprietors and firm members engaged in the industry in that year was 110 and the number of salaried employees 4,092, while the average number of wage earners was 17,071. The average number of wage earners per establishment was 20.9 for the United States. For Texas the average was 15.8; for Georgia, 20.3; for Mississippi, 28.8; for Alabama, 22.8; and for North Carolina, 22.

TABLE 22.—COMPARATIVE SUMMARY FOR COTTONSEED PRODUCTS, BY STATES: 1909, 1904, 1899, AND 1889.

STATE.	Census.	Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.				Primary horse-power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	Value added by manufacture.
			Total.	Proprietors and firm members.	Salariat employ-ees.	Wage earners (average number).							
			Expressed in thousands.										
United States.....	1909	817	21,273	110	4,092	17,071	192,342	\$91,086	\$4,295	\$5,835	\$119,833	\$147,868	\$28,085
	1904	715	18,831	63	3,229	15,539	152,667	73,771	3,062	4,838	80,031	96,408	16,377
	1899	369	12,658	82	1,569	11,007	74,008	34,451	1,579	3,143	45,166	58,727	13,561
	1889	119	6,301	.....	395	5,906	.....	12,809	414	1,494	14,303	19,386	4,973
Alabama.....	1909	71	1,984	13	353	1,618	17,215	7,202	394	437	7,075	9,178	2,103
	1904	58	1,698	17	281	1,400	12,919	5,169	254	381	4,551	5,769	1,215
	1899	28	886	21	106	759	1,610	1,610	99	197	2,104	2,986	882
	1889	9	533	.....	43	490	.....	1,692	47	80	945	1,204	259
Arkansas.....	1909	44	1,850	3	261	1,086	13,029	5,239	281	441	6,005	7,789	1,784
	1904	42	1,135	3	210	922	10,105	4,105	197	329	4,200	4,940	740
	1899	20	762	1	94	667	5,170	2,485	116	233	1,996	3,189	1,193
	1889	8	586	.....	25	511	.....	1,489	38	159	1,319	1,882	563
Georgia.....	1909	142	3,009	11	710	2,888	29,510	12,720	607	847	19,440	23,641	4,201
	1904	112	2,816	11	498	2,307	21,170	11,528	472	608	11,263	13,540	2,277
	1899	43	1,793	7	195	1,591	9,863	4,098	187	354	6,229	8,004	1,835
	1889	17	800	.....	49	761	.....	992	41	146	1,289	1,670	381
Kentucky ¹	1909	5	240	.....	53	187	1,225	2,363	70	90	3,571	4,141	570
	1904	3	361	.....	55	306	630	3,440	76	86	4,296	5,698	1,402
	1899	3	210	.....	30	180	400	2,029	53	59	4,225	4,683	468
Louisiana.....	1909	43	1,165	1	270	894	12,142	7,164	289	818	11,568	13,085	1,517
	1904	51	1,916	4	307	1,605	13,238	8,687	312	516	11,477	13,187	1,710
	1899	24	1,486	5	164	1,317	4,821	4,622	159	347	5,792	7,027	1,235
	1889	7	427	.....	40	387	.....	1,083	41	136	1,058	1,573	515
Mississippi.....	1909	87	3,014	17	494	2,503	24,534	10,133	562	833	12,169	15,965	3,796
	1904	91	2,950	6	451	2,499	20,564	8,552	455	732	10,070	12,587	2,517
	1899	41	1,732	12	109	1,521	8,061	3,712	212	461	4,953	6,681	1,723
	1889	13	921	.....	30	891	.....	1,498	32	211	1,758	2,497	649
North Carolina.....	1909	53	1,446	3	278	1,165	9,641	4,432	265	326	7,090	8,504	1,414
	1904	43	1,027	3	167	897	7,099	3,118	123	233	2,666	3,749	793
	1899	21	651	.....	87	504	2,913	1,842	13	83	2,161	2,677	516
	1889	11	337	.....	19	318	.....	744	18	167	402	530	123
Oklahoma.....	1909	39	770	3	186	581	10,720	5,071	202	235	4,245	5,187	942
	1904	24	606	1	109	406	6,063	2,590	110	182	2,353	3,109	756
	1899	12	263	.....	41	222	2,286	719	43	70	605	874	269
South Carolina.....	1909	103	2,190	16	409	1,765	17,730	6,880	333	467	8,719	10,903	2,184
	1904	100	1,626	3	341	1,282	14,541	5,177	233	320	4,553	5,463	910
	1899	60	914	18	162	734	5,785	1,960	109	144	2,363	3,104	741
	1889	17	440	.....	33	416	.....	565	12	56	741	923	187
Tennessee.....	1909	20	957	4	147	806	7,472	3,731	292	290	5,201	6,593	1,392
	1904	20	819	.....	118	701	6,631	2,614	138	245	3,084	3,744	660
	1899	17	833	2	80	751	4,466	1,997	105	204	2,278	2,980	702
	1889	15	1,084	.....	54	1,030	.....	1,833	54	134	1,749	2,505	756
Texas.....	1909	194	3,023	39	811	3,073	45,185	21,566	879	1,206	23,439	29,916	6,477
	1904	157	3,368	15	614	2,739	34,002	14,180	578	1,020	15,805	18,699	2,894
	1899	103	2,869	15	376	2,473	21,959	7,937	375	831	10,373	14,005	3,632
	1889	13	920	.....	54	866	.....	2,359	54	320	2,532	3,262	780
All other states.....	1909	² 16	625	.....	120	595	3,939	4,645	202	255	11,311	12,966	1,655
	1904	² 14	503	.....	83	415	4,835	4,311	114	141	5,420	6,923	603
	1899	² 7	259	.....	35	223	1,670	1,390	53	110	2,087	2,457	370
	1889	² 6	294	.....	48	246	.....	1,654	82	139	2,570	3,375	805

¹ Included in "All other states" in 1889.

² Includes establishments distributed as follows: Florida, 5; Illinois, 2; Kansas, 1; Missouri, 4; New Jersey, 1; Ohio, 1; Rhode Island, 1; and Virginia, 1.

³ Includes establishments distributed as follows: Florida, 3; Illinois, 2; Missouri, 4; New Jersey, 1; Ohio, 1; Rhode Island, 1; and Virginia, 2.

⁴ Includes establishments distributed as follows: Florida, 1; Illinois, 1; Kansas, 1; Missouri, 2; Ohio, 1; and Rhode Island, 1.

⁵ Includes establishments distributed as follows: Florida, 2; Kentucky, 2; New York, 3; Ohio, 1; and Rhode Island, 1.

The following statement gives the number of wage earners, by states, for the different months. The considerable number reported for months not in the crushing season represents largely those employed in the

refineries and in the manufacture of fertilizer, feed, ice, and the like, where such industries were carried on in connection with the oil mills.

STATE.	NUMBER OF WAGE EARNERS EMPLOYED IN THE COTTONSEED-PRODUCTS INDUSTRY: 1909.											
	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
United States.....	25,068	22,389	18,038	11,180	7,445	5,634	5,174	6,038	16,958	25,293	29,334	28,677
Alabama.....	2,565	2,048	1,635	930	600	524	430	459	1,877	2,835	2,827	2,082
Arkansas.....	1,660	1,380	1,107	629	558	405	326	349	839	1,853	1,996	1,928
Georgia.....	4,424	4,260	3,400	1,994	1,129	686	688	571	3,131	4,642	4,584	4,523
Kentucky.....	169	195	224	218	238	146	95	99	117	227	264	248
Louisiana.....	1,064	835	886	674	456	333	385	412	993	1,563	1,695	1,479
Mississippi.....	3,816	3,338	2,928	1,612	1,266	1,040	871	911	1,877	3,959	4,276	4,144
North Carolina.....	1,791	1,786	1,569	1,087	569	344	322	388	885	1,605	1,797	1,779
Oklahoma.....	1,000	641	607	267	162	126	115	132	408	1,112	1,266	1,232
South Carolina.....	2,736	2,608	2,128	1,482	592	539	524	521	1,047	2,649	2,864	2,888
Tennessee.....	1,306	1,144	918	523	457	213	186	206	685	1,363	1,394	1,280
Texas.....	4,331	3,534	2,195	1,399	1,087	932	997	1,422	4,097	5,718	6,762	5,430
All other states.....	806	611	532	377	341	296	255	268	402	707	709	764

The total primary horsepower employed in the industry was returned at 185,683, which, compared with 74,008 in 1899, represents a gain of 151 per cent during the decade. Practically all the power used in the industry is steam. In 1899 the amount of capital invested was \$34,451,000, while that returned for 1909 amounted to \$91,086,000, a gain of 164 per cent. Texas, with \$21,506,000, leads, followed by Georgia, with \$12,720,000; Mississippi, with \$10,133,000; and Alabama, with \$7,202,000. The total amount paid for salaries was \$4,295,000, and that paid for wages was \$5,835,000.

In the cost of materials there has been an increase of 165 per cent during the decade, and in the value of products an increase from \$58,727,000 to \$147,868,000, or 152 per cent. The total value added by manufacture in 1909 was \$28,035,000, compared with \$13,561,000 in 1899, an increase of \$14,474,000, or 107 per cent, and with \$16,377,000 in 1904, a gain of \$11,658,000, or 71 per cent.

The following table presents the statistics for 1909 in greater detail than does Table 22, and permits of a closer study of the several items:

TABLE 23.—DETAIL STATEMENT FOR COTTONSEED PRODUCTS, BY STATES: 1909.

STATE.	Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY—AVERAGE NUMBER.									WAGE EARNERS—NUMBER DEC. 15, 1909, OR NEAREST REPRESENTATIVE DAY.					Primary horsepower.
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks.		Wage earners.			Total.	16 and over.		Under 16.			
					Male.	Female.	Total.	Male.	Female.		Under 16.	Male.	Female.	Male.	Female.	
United States.....	817	21,273	110	2,057	1,956	70	17,071	16,960	30	81	29,691	29,551	49	90	1	192,342
Alabama.....	71	1,984	13	180	164	9	1,618	1,596	1	21	2,798	2,761	1	36	.....	17,215
Arkansas.....	44	1,350	8	104	155	2	1,086	1,086	.....	.....	1,969	1,960	.....	.....	.....	13,029
Georgia.....	142	3,609	11	365	337	8	2,888	2,879	2	7	4,726	4,711	3	12	.....	29,510
Kentucky.....	5	240	.....	15	32	6	187	187	.....	.....	248	248	.....	.....	.....	1,225
Louisiana.....	43	1,165	1	112	153	5	894	886	6	2	1,720	1,704	11	4	1	12,142
Mississippi.....	87	3,014	17	246	240	8	2,503	2,492	11	.....	4,142	4,124	18	.....	.....	24,534
North Carolina.....	53	1,446	3	126	140	12	1,165	1,116	1	48	1,723	1,687	1	35	.....	9,641
Oklahoma.....	39	770	3	106	78	2	581	581	.....	.....	1,294	1,294	.....	.....	.....	10,720
South Carolina.....	103	2,190	16	249	150	10	1,765	1,762	2	1	2,855	2,851	3	1	.....	17,730
Tennessee.....	20	957	4	53	89	5	806	805	1	.....	1,407	1,405	2	.....	.....	7,472
Texas.....	194	3,923	39	456	348	7	3,073	3,069	4	.....	6,029	6,022	7	.....	.....	45,185
All other states.....	116	625	.....	45	70	5	505	501	2	2	780	775	3	2	.....	3,939

STATE.	Capital.	EXPENSES.										Value of products.	Value added by manufacture.
		Total.	Services.			Materials.		Miscellaneous.					
			Officials.	Clerks.	Wage earners.	Fuel and rent of power.	Other.	Rent of factory.	Taxes, including internal revenue.	Contract work.	Other.		
United States.....	\$91,086,411	\$136,716,095	\$2,808,585	\$1,486,295	\$5,835,249	\$3,144,795	\$116,688,680	\$68,628	\$707,931	\$42,600	\$5,933,342	\$147,867,894	\$28,034,410
Alabama.....	7,201,840	8,418,248	219,777	114,530	436,761	229,056	6,845,738	8,150	57,067	2,493	504,676	9,178,016	2,103,222
Arkansas.....	5,239,091	7,195,329	162,531	117,991	440,626	175,160	5,829,814	4,000	40,600	.....	424,607	7,788,885	1,783,911
Georgia.....	12,720,146	21,979,655	432,803	234,107	946,433	620,941	18,819,011	12,000	98,175	14,721	901,464	23,640,779	4,200,627
Kentucky.....	2,362,683	3,893,167	43,695	34,707	90,409	22,050	3,549,124	.....	11,269	.....	141,923	4,141,175	570,001
Louisiana.....	7,163,820	12,639,592	177,012	112,171	318,084	227,261	11,340,440	20,100	75,994	100	368,430	13,084,580	1,510,885
Mississippi.....	10,132,904	14,456,168	367,245	194,800	833,355	392,607	11,770,064	12,739	129,497	8,079	741,721	15,965,543	3,790,572
North Carolina.....	4,432,010	7,952,231	153,993	111,106	325,880	184,247	6,905,683	2,564	26,274	60	242,424	8,504,477	1,414,547
Oklahoma.....	5,071,147	4,985,400	142,050	60,102	235,403	108,784	4,130,715	50	40,156	2,337	259,801	5,186,605	941,106
South Carolina.....	6,880,240	10,007,598	232,252	100,449	466,837	316,344	8,403,191	6,338	49,168	6,636	426,383	10,602,935	2,183,400
Tennessee.....	3,730,736	6,021,621	117,496	84,257	290,266	95,825	5,105,249	.....	24,820	.....	303,708	6,592,776	1,391,702
Texas.....	21,506,347	27,180,657	621,893	257,382	1,296,340	671,287	22,767,774	2,676	124,202	8,174	1,430,029	29,915,772	6,476,711
All other states.....	4,645,387	11,986,400	137,838	64,593	254,853	101,233	11,209,877	20	30,719	.....	187,276	12,966,345	1,655,235

¹ Includes establishments distributed as follows: Florida, 5; Illinois, 2; Kansas, 1; Missouri, 4; New Jersey, 1; Ohio, 1; Rhode Island, 1; and Virginia, 1.

Table 24 is a comparative summary, by states, for the census years 1899, 1904, and 1909, of the quantity and cost of cotton seed used for oil extraction, the average amount crushed per establishment, and the quantity and value of the several primary products, together with their total value.

TABLE 24.—COMPARATIVE SUMMARY OF THE QUANTITY AND COST OF COTTON SEED CRUSHED AND OF THE QUANTITY AND VALUE OF CRUDE PRODUCTS MANUFACTURED, BY STATES: 1909, 1904, AND 1899.

STATE.	Year.	Number of active establishments.	COTTON SEED CRUSHED.				CRUDE COTTONSEED PRODUCTS.							
			Tons.	Cost.	Average consumption per mill (tons).	Total value.	Oil.		Meal and cake.		Hulls.		Linters.	
							Gallons.	Value.	Tons.	Value.	Tons.	Value.	Pounds.	Value.
United States....	1909	810	3,827,301	\$78,111,867	4,725	\$107,528,204	158,828,541	\$55,327,937	1,674,545	\$40,493,513	1,267,538	\$7,699,857	175,773,077	\$4,006,897
	1904	717	3,345,370	51,878,604	4,666	89,310,624	133,817,772	31,341,012	1,360,172	27,766,556	1,213,344	5,688,814	117,792,969	4,613,842
	1899	377	2,479,386	28,632,616	6,045	42,411,835	93,325,729	21,300,674	884,391	16,030,576	1,169,286	3,189,354	57,272,053	1,801,231
Alabama.....	1909	71	310,754	6,263,827	4,377	8,714,277	13,061,384	4,418,413	141,162	3,383,676	95,351	628,363	13,770,427	283,825
	1904	58	265,653	4,062,458	4,580	5,578,189	10,634,304	2,565,424	107,220	2,217,343	95,517	490,360	8,420,399	304,562
	1899	27	172,093	2,019,085	6,374	2,952,254	6,704,951	1,520,834	60,389	1,076,150	80,167	217,925	4,331,016	137,345
Arkansas.....	1909	44	278,337	5,577,519	6,320	7,700,341	11,435,430	4,026,497	116,709	2,866,398	84,200	512,213	12,880,498	295,233
	1904	42	238,227	3,803,975	5,672	4,912,819	9,557,668	2,373,600	94,263	1,853,278	84,374	343,209	8,572,572	342,732
	1899	20	190,015	2,245,710	9,501	3,188,812	7,224,971	1,644,465	65,459	1,142,102	90,683	248,770	4,613,510	153,475
Georgia.....	1909	145	594,070	12,436,932	4,097	17,034,325	26,181,463	9,108,869	261,717	6,234,955	133,370	1,229,561	26,040,114	511,440
	1904	120	368,996	5,924,680	3,075	8,100,677	15,284,303	3,679,539	151,011	3,187,920	171,644	751,644	18,281,459	620,674
	1899	46	271,833	3,240,814	5,009	4,787,100	10,606,093	2,468,386	91,637	1,713,038	132,344	405,581	6,398,830	200,095
Louisiana.....	1909	41	155,548	3,333,713	3,794	4,496,799	6,527,503	2,300,681	70,739	1,737,187	45,617	294,793	7,282,908	164,223
	1904	49	319,704	4,721,103	6,525	6,623,523	13,158,519	2,985,070	138,301	2,812,160	103,955	414,527	10,771,006	411,138
	1899	21	250,983	2,833,767	11,952	4,307,891	9,692,640	2,222,762	91,848	1,715,424	114,446	287,650	6,133,661	172,055
Mississippi.....	1909	89	559,357	10,848,270	6,285	15,468,769	24,386,289	8,079,117	244,738	5,746,029	181,797	1,095,415	24,237,536	548,298
	1904	92	556,390	8,932,300	6,048	12,093,560	22,075,991	5,752,963	228,122	4,673,017	198,464	942,705	17,418,633	724,374
	1899	41	394,678	4,577,995	9,626	6,671,031	15,033,565	3,364,278	141,529	2,618,405	185,000	396,791	9,169,737	291,557
North Carolina.....	1909	53	214,582	4,695,456	4,040	6,199,488	9,611,394	3,278,844	92,906	2,348,825	63,459	367,112	8,442,520	204,707
	1904	44	148,037	2,650,615	3,366	3,446,709	6,269,662	1,600,950	59,787	1,376,619	53,184	268,813	4,472,965	200,827
	1899	20	107,000	1,313,033	5,383	1,880,015	4,388,277	979,637	30,088	678,973	52,139	145,928	2,149,996	75,477
Oklahoma.....	1909	39	186,352	3,934,987	4,778	5,180,034	6,817,974	2,546,521	78,600	2,012,734	62,290	367,889	9,584,227	252,890
	1904	24	168,454	2,129,068	7,019	3,080,079	6,884,078	1,250,043	67,417	1,340,831	62,264	224,412	7,169,960	264,793
	1899	12	52,840	545,459	4,403	856,141	1,868,906	304,012	18,666	346,592	25,498	73,869	1,199,525	41,668
South Carolina.....	1909	102	346,550	7,530,045	3,398	10,170,440	15,745,552	5,465,826	156,729	3,796,143	103,795	573,559	14,356,169	334,912
	1904	99	213,103	3,767,983	2,153	4,946,030	9,178,661	2,322,876	90,815	1,986,895	71,942	360,795	6,641,495	269,464
	1899	48	156,642	2,186,408	3,263	3,043,547	6,162,218	1,545,934	57,936	1,169,645	71,542	217,836	3,223,892	110,082
Tennessee.....	1909	20	179,475	3,526,945	8,974	5,082,745	7,525,409	2,611,216	76,963	1,925,842	59,434	325,109	8,533,434	220,578
	1904	20	143,479	2,367,686	7,174	3,099,247	5,760,599	1,442,043	58,477	1,169,980	63,733	232,477	5,918,496	254,147
	1899	15	168,307	1,848,829	11,220	2,737,038	6,454,173	1,363,555	59,613	1,045,795	79,853	106,105	4,068,473	131,683
Texas.....	1909	192	916,374	18,267,454	4,773	25,022,509	33,497,933	12,270,855	395,791	9,500,062	340,528	2,144,380	46,994,462	1,107,212
	1904	155	864,767	12,437,330	5,579	16,173,435	32,239,649	6,776,342	340,709	6,698,821	337,233	1,450,984	33,307,400	1,247,338
	1899	102	692,004	7,560,661	6,790	11,519,656	24,354,695	5,696,263	252,933	4,371,377	328,119	975,489	15,544,379	476,527
All other states.....	1909	114	85,902	1,697,709	6,136	2,408,477	3,538,150	1,221,598	38,401	941,662	27,797	161,548	3,641,732	83,669
	1904	214	58,494	1,021,400	4,178	1,247,807	2,373,953	501,862	24,041	479,692	21,152	102,388	1,817,568	73,865
	1899	25	21,731	254,225	4,346	378,350	834,640	190,548	8,693	153,075	9,430	23,360	419,025	11,367

¹ Includes establishments distributed as follows: Florida, 5; Illinois, 2; Kansas, 1; Kentucky, 2; and Missouri, 4.

² Includes establishments distributed as follows: Florida, 6; Illinois, 2; Kentucky, 1; Virginia, 2; and Missouri, 4.

³ Includes establishments distributed as follows: Florida, 1; Illinois, 1; Kansas, 1; and Missouri, 2.

The number of establishments shown in Table 22 is 817, while in Table 24 the number is 810. In Table 22 are included all establishments engaged exclusively in extracting and refining cottonseed oil and in addition all establishments the aggregate value of whose cottonseed products exceeds the value of all other products, whereas Table 24 is limited strictly to establishments which crushed seed during the year, regardless of the extent to which they are engaged in other industries. Thus Table 22 includes 15 establishments which are omitted from Table 24, because they did not crush any seed, but merely refined oil extracted by other establishments; and Table 24 includes 8 establishments which are not represented in Table 22, because the value of the cottonseed products was in each case smaller than the value of other products manufactured by the establishment.

To enable a complete statistical presentation, the census inquiry called for the total production of the several crude products derived from crushing cotton

seed, whether sold as such or used as intermediate products in further processes of manufacture, such as the refining of oil and the mixing of fertilizer and feed. The totals shown in the table, therefore, include estimates made by the manufacturers as to the value of the crude products when not sold.

Between 1899 and 1909 the number of establishments engaged in crushing cotton seed increased by 453, or 127 per cent, and the quantity of seed crushed increased from 2,479,386 tons to 3,827,301 tons, or 54 per cent. The quantity of seed crushed increased in every state, with the single exception of Louisiana, where 250,983 tons were crushed in 1899 and 155,548 tons in 1909. In Georgia and in South Carolina the quantity crushed more than doubled and in Oklahoma it more than trebled. In Tennessee the increase in the crush was small, while in Texas the gain amounted to 32 per cent. The average crush of mills reporting amounted to 6,945 tons in 1899, compared with 4,666 tons in 1904 and 4,725 tons in 1909. The reduction

in the average crush per establishment during the first half of the decade was due very largely to the erection of mills in the smaller towns which are close to the seed supply, while formerly much the larger number of mills were located at railroad centers and secured their seed from wide areas. Recently, however, there has been a slight increase in some states in the average crush per mill, due to the fact that the high price of seed has resulted in the crushing of a larger percentage of the seed produced. During the decade a falling off in the average crush per mill has occurred throughout the states of the cotton belt, with the exception of Oklahoma and South Carolina, in both of which the average was somewhat larger in 1909 than in 1899. The most notable reduction was in Louisiana, where the average per establishment decreased from 11,952 tons to 3,794 tons. This decrease was of course to a very large extent the result of the decline in the production of cotton in that state following the ravages of the boll weevil.

In the following statement the establishments represented in the preceding table are classified according to the quantity of seed crushed:

STATE.	NUMBER OF COTTONSEED-OIL MILLS.						
	Total.	Crushing—					
		Less than 1,000 tons.	1,000 but less than 2,000 tons.	2,000 but less than 5,000 tons.	5,000 but less than 10,000 tons.	10,000 but less than 20,000 tons.	20,000 tons and over.
United States.....	810	83	136	306	197	80	8
Alabama.....	71	8	15	27	15	5	1
Arkansas.....	44	.....	5	13	19	7	.....
Georgia.....	145	13	35	55	27	14	1
Louisiana.....	41	5	12	14	5	5	.....
Mississippi.....	89	6	5	27	34	17	.....
North Carolina.....	53	0	9	26	9	3	.....
Oklahoma.....	39	1	0	18	10	4	.....
South Carolina.....	102	23	28	32	13	4	2
Tennessee.....	20	1	.....	4	8	7	.....
Texas.....	192	18	21	86	51	13	3
All other states.....	14	2	.....	4	0	1	1

¹ Includes establishments distributed as follows: Florida, 5; Illinois, 2; Kansas, 1; Kentucky, 2; and Missouri, 4.

Of the mills shown in the foregoing table, there were 219 which crushed less than 2,000 tons of seed each during the census year, and 525, or 65 per cent, which crushed less than 5,000 tons each. There were 88 mills each of which crushed 10,000 tons or over, and these together reported almost one-third of the total quantity of seed crushed in the industry.

The total cost of seed delivered at the mill was \$78,111,857 in 1909, while in 1904 it was \$51,878,604 and in 1899, \$28,632,616. During the last decade, therefore, there has been an increase in the total cost of 173 per cent, which is much greater than the increase in the total quantity of seed crushed. In 1909 the average cost per ton was \$20.41, nearly double the figure for 1899, \$11.55. The average cost per ton in 1909 was higher than that for the United States in Georgia, Louisiana, North Carolina, Oklahoma, and

South Carolina; and lower in Alabama, Arkansas, Mississippi, Tennessee, and Texas.

The total value of the crude products manufactured from the seed amounted to \$107,528,204 in 1909, compared with \$42,411,835 in 1899, an increase of more than 150 per cent during the decade. This increase, which is shared by every state, was brought about principally by the high prices obtained for the products. In the value of products per ton of seed crushed there has been an advance during the decade from \$17.11 to \$28.10, or 64 per cent. In 1909 crude oil represented 51 per cent of the value of all products; cake and meal, 38 per cent; hulls, 7 per cent; and linters, 4 per cent; while in 1899 crude oil constituted 50 per cent of the total value; cake and meal, 38 per cent; hulls, 8 per cent; and linters, 4 per cent.

The ratios which the several products in 1909 bore to the total weight of the seed when received at the mill were as follows: Crude oil, 15.5 per cent; meal, 43.8 per cent; hulls, 33.1 per cent; linters, 2.3 per cent. From a comparison of these figures with the corresponding returns for the censuses of 1904 and 1899 it will be observed that there have been steady increases in the relative weights of all products but hulls, which show a decrease of 14 per cent for the decade and 3 per cent for the five-year period ending with 1909. This reduction in the weight of hulls may be accounted for by the closer delinting of the seed, which permits a better segregation of the meats from the hulls, and also by the introduction of cold-process mills which extract the oil from the seed without hulling, the resulting cake being disposed of as "Cake and meal."

The fluctuations in the average values of the several products for the three census years are due in a large measure to the fluctuations in the market values of products with which they come into competition. For instance, the price of oil is affected by the prices of hogs' lard, soap stock, olive oil, etc.; the price of meal and cake and of hulls by those of other feedstuffs and of fertilizer materials; and the price of linters by that of staple cotton. The value of linters is further affected largely by the prevailing custom of very close reginning, which results in a shorter and trashier grade of linters.

FERTILIZERS.

An interesting development in the industry is the mixing of commercial fertilizers by the oil mills, large quantities of the meal product of the mills being used for that purpose. As cotton growers and farmers generally throughout the cotton belt are coming to realize more and more the value of fertilizers in increasing the yield of their crops, and especially the cotton crop, the use of this product is increasing. Among the most important ingredients in fertilizers are ammoniates, of which cottonseed meal is one of the best; and it is largely on this account that the oil

mills have taken up the manufacture of fertilizers. Of the 810 establishments which crushed seed in 1909, 142 reported the manufacture of fertilizers. These establishments were located in nine states and distributed as follows: In Alabama, 19; Arkansas, 5; Florida, 2; Georgia, 55; Louisiana, 3; Mississippi, 12; North Carolina, 22; South Carolina, 15; and Texas, 9. Their combined output of fertilizers was 214,000 tons, valued at \$4,275,000.

In this connection the following statement, showing the sale of commercial fertilizers in the principal cotton-growing states during specified years, may be of interest:

STATE.	COMMERCIAL FERTILIZERS SOLD (TONS). ¹				
	1910	1905	1900	1895	1890
Alabama.....	410,000	390,000	352,000	366,000	300,000
Arkansas.....	(²)	(²)	8,025	(²)	4,697
Florida.....	(²)	91,959	33,218	16,342	42,766
Georgia.....	1,022,048	922,414	452,571	335,617	306,734
Louisiana.....	88,896	94,729	31,813	4,783	11,120
Mississippi.....	132,777	114,260	66,667	17,683	(²)
North Carolina.....	630,905	433,785	276,238	114,208	181,692
South Carolina.....	834,334	666,187	292,152	123,311	212,392
Tennessee.....	58,612	38,112	33,404	16,911	14,335
Texas.....	34,000	13,500	(²)	(²)	(²)

¹ The statistics were secured from officials in the states named and are based largely on the sale of fertilizer tags.

² Not reported.

The foregoing figures are not confined to the quantities of fertilizers used in the growing of cotton; and, on the other hand, they do not cover meal sold as such for fertilizer purposes, of which there must have been a large amount in the country as a whole. South Carolina alone reported 140,000 tons of such meal in 1910; Georgia, 91,000 tons; North Carolina, 70,000 tons; and Mississippi, 56,000 tons.

EXPORTS OF COTTONSEED PRODUCTS.

Formerly a very large percentage of the cottonseed products manufactured in the United States was exported, but an increasing domestic demand has caused a decline year by year in the proportion exported. In 1899, 50 per cent of the oil produced was exported, while in 1909 the ratio was less than 20 per cent.

The following table shows the exports of cotton seed, cottonseed oil, and cottonseed meal and cake, by countries to which exported, for the calendar year 1910:

TABLE 25.—Exports of cotton seed, cottonseed oil, and cottonseed meal and cake, by countries to which exported, for the calendar year 1910.

COUNTRY TO WHICH EXPORTED.	COTTON SEED.		OIL.		MEAL AND CAKE.	
	Quantity (tons).	Value.	Quantity (gallons).	Value.	Quantity (tons).	Value.
Total.....	9,653	\$339,439	23,550,468	\$13,180,692	369,719	\$10,122,274
Belgium.....			218,530	124,607	12,214	315,027
Denmark.....			451,974	258,022	182,518	3,611,445
France.....	308	8,900	418,478	235,321	9,405	233,141
Germany.....	6,113	213,579	1,245,233	682,702	128,822	3,543,921
Italy.....			1,798,533	1,065,864		
Netherlands.....	1,593	46,700	4,783,846	2,549,075	30,178	823,220
Norway.....			862,003	481,001		235,915
United Kingdom.....	971	32,927	3,668,114	2,058,601	46,866	1,282,308
All other European countries.....			1,297,472	750,661	612	17,550
Canada and Newfoundland.....			1,924,948	1,115,638	1,653	52,277
Central American States.....	1	21	218,410	139,121	84	2,459
Mexico.....	662	36,743	3,156,534	1,598,836	58	2,023
West Indies.....			1,353,780	624,337	93	2,938
South America.....			1,763,995	1,069,485		
All other countries.....	5	569	388,617	235,330		

The country purchasing the largest quantities of American cottonseed oil is the Netherlands, followed in order of importance by the United Kingdom, Mexico, Canada, Italy, Germany, and Norway. Of the total amount of cotton seed exported in 1910, Germany took 6,113 tons, or 63 per cent, and the Netherlands, 1,593 tons, or 17 per cent. The largest amount of meal and cake was exported to Denmark and the next largest to Germany. Large quantities were also exported to the United Kingdom and to the Netherlands.

Formerly there was much prejudice against the use of cottonseed-oil products for edible purposes, and this still remains true in several countries. The general public, however, both in America and abroad, is gradually realizing that when cottonseed oil is carefully manufactured from seed in proper condition it is equal to any other vegetable oil, and preferable to many of the animal fats now consumed.

The next table presents estimates of the production of cotton seed in the United States, the quantity used for manufacture, and the quantity and value of the different products derived therefrom, together with statistics of the cotton seed and cottonseed products exported since 1874.

TABLE 26.—ESTIMATED QUANTITY OF COTTON SEED PRODUCED, QUANTITY AND VALUE PER TON OF COTTON SEED MANUFACTURED, QUANTITIES AND VALUES OF PRODUCTS OBTAINED, AND EXPORTS OF COTTONSEED PRODUCTS: 1874 TO 1910.

In the preparation of this table a number of sources of information have been utilized, but it has been found impracticable to secure in all instances satisfactory data for the years indicated, and only an approximation to the facts is claimed. Statistics of the quantity of seed produced and manufactured and of cottonseed products relate to the growth year, while the statistics of exports are for the year ending June 30, following.]

YEAR.	COTTON SEED—			COTTONSEED PRODUCTS.						
	Produced (tons).	Manufactured.		Total value.	Oil.			Cake and meal.		
		Quantity (tons).	Value per ton.		Quantity (gallons).	Value.		Quantity (tons).	Value.	
				Total.	Per gallon (cents).		Total.	Per ton.		
1910	5,175,000	4,106,000	\$27.40	\$142,710,000	167,970,000	\$80,430,000	48	1,792,000	\$44,660,000	\$24.92
1909	4,462,000	3,269,000	27.70	105,720,000	131,000,000	55,230,000	42	1,326,000	35,910,000	27.03
1908	5,904,000	3,670,000	15.60	86,090,000	146,790,000	44,090,000	30	1,492,000	33,580,000	22.51
1907	4,952,000	2,555,000	17.60	65,980,000	103,050,000	33,390,000	32	1,043,000	23,300,000	22.34
1906	5,913,000	3,844,000	13.80	94,380,000	153,780,000	43,050,000	28	1,786,000	39,140,000	21.91
1905	5,080,000	3,181,000	14.00	64,950,000	125,700,000	20,400,000	21	1,272,000	29,250,000	23.00
1904	6,427,000	3,345,000	14.20	69,310,000	133,820,000	31,340,000	23	1,360,000	27,770,000	20.42
1903	4,716,000	3,241,000	17.30	73,930,000	121,880,000	39,000,000	32	1,166,000	24,840,000	21.49
1902	4,082,000	3,269,000	15.80	71,290,000	122,010,000	40,560,000	33	1,165,000	23,310,000	20.01
1901	4,630,000	3,184,000	12.50	62,980,000	118,610,000	33,210,000	28	1,125,000	21,930,000	19.49
1900	4,580,000	2,435,000	16.00	48,230,000	96,610,000	26,080,000	27	845,000	16,270,000	19.25
1899	4,668,000	2,479,000	11.60	42,410,000	93,330,000	21,390,000	23	854,000	10,030,000	18.13
1898	5,472,000	2,363,000		27,900,000	94,110,000	13,180,000	14	823,000	14,780,000	17.96
1897	5,253,000	2,101,000		26,680,000	84,040,000	12,610,000	15	735,000	14,070,000	19.14
1896	4,070,000	1,628,000		20,260,000	65,120,000	11,720,000	18	570,000	14,540,000	25.51
1895	3,410,000	1,435,000		20,180,000	67,890,000	11,480,000	20	502,000	8,700,000	17.33
1894	4,792,000	1,077,000		24,870,000	67,090,000	13,420,000	20	587,000	11,450,000	19.51
1893	3,570,000	1,431,000		28,500,000	67,260,000	16,600,000	29	501,000	11,900,000	23.76
1892	3,183,000	1,050,000		18,630,000	49,010,000	10,080,000	24	368,000	8,550,000	23.23
1891	4,274,000	1,068,000		20,520,000	42,740,000	11,540,000	27	374,000	8,980,000	24.00
1890	4,093,000	1,023,000		19,760,000	40,930,000	11,460,000	28	358,000	8,330,000	23.27
1889	3,495,000	874,000		16,400,000	34,950,000	10,130,000	29	306,000	6,270,000	20.49
1888	3,310,000	794,000		20,370,000	31,770,000	13,980,000	44	278,000	6,890,000	22.96
1887	3,201,000	823,000		17,130,000	32,910,000	11,520,000	35	288,000	5,610,000	19.48
1886	3,018,000	694,000		12,820,000	27,770,000	8,050,000	29	243,000	4,770,000	19.63
1885	3,045,000	578,000		10,970,000	23,140,000	6,710,000	29	202,000	4,200,000	21.09
1884	2,625,000	490,000		10,470,000	19,960,000	6,980,000	35	174,000	3,490,000	20.04
1883	2,638,000	396,000		9,350,000	15,840,000	6,020,000	38	188,000	3,330,000	27.75
1882	3,266,000	392,000		10,640,000	15,680,000	7,060,000	45	187,000	3,580,000	26.13
1881	2,455,000	295,000		8,380,000	11,780,000	5,420,000	46	103,000	2,960,000	28.74
1880	8,039,000	182,000		4,010,000	7,290,000	2,770,000	38	64,000	1,840,000	28.75
1879	2,616,000	235,000		5,040,000	9,420,000	3,076,000	39	82,000	1,970,000	24.69
1878	2,208,000	181,000		3,810,000	7,260,000	2,400,000	33	64,000	1,410,000	22.03
1877	2,148,000	150,000		3,910,000	6,020,000	2,650,000	44	83,000	1,260,000	23.77
1876	1,960,000	98,000		2,610,000	3,940,000	1,770,000	45	34,000	840,000	24.74
1875	2,067,000	123,000		3,970,000	4,940,000	2,670,000	54	43,000	1,800,000	30.23
1874	1,687,000	84,000		2,530,000	3,370,000	1,690,000	47	80,000	940,000	31.33

YEAR.	COTTONSEED PRODUCTS—continued.						EXPORTS.		
	Quantity (tons).	Hulls.		Linters.		Cotton seed (tons).	Cottonseed products.		
		Quantity (tons).	Value.	Per ton.	Quantity (bales of 500 pounds net).		Value.	Per pound (cents).	Oil (gallons).	Cake and meal (tons).
		Total.	Per ton.	Total.	Per pound (cents).				
1910	1,375,000	\$11,370,000	\$8.27	379,576	\$6,250,000	3.3			
1909	1,189,000	9,810,000	8.25	296,640	4,770,000	3.2	12,466	29,860,667	320,044
1908	1,530,000	6,080,000	4.57	330,277	2,340,000	1.4	25,813	51,087,329	616,075
1907	927,000	6,370,000	6.87	250,437	2,920,000	2.3	14,239	41,019,991	464,644
1906	1,693,000	8,840,000	5.55	307,518	3,360,000	2.2	8,814	41,880,304	670,484
1905	1,185,000	5,110,000	4.50	219,397	4,190,000	3.8	11,859	43,793,510	556,447
1904	1,213,000	5,590,000	4.61	235,586	4,610,000	3.9	10,551	51,535,560	625,054
1903	1,528,000	5,710,000	3.74	194,436	4,389,000	4.5	6,480	29,013,748	410,175
1902	1,541,000	5,390,000	3.50	150,366	2,030,000	2.7	25,811	35,642,094	550,196
1901	1,487,000	6,320,000	4.25	145,103	1,520,000	2.1	28,202	33,042,848	425,233
1900	1,130,000	3,990,000	3.50	111,099	1,890,000	3.4	21,665	49,356,741	629,344
1899	1,160,000	3,190,000	2.75	114,544	1,800,000	3.1	24,923	46,902,360	571,852
1898							17,222	50,627,219	539,997
1897							10,382	40,230,784	456,884
1896							13,283	27,198,882	311,693
1895							13,400	19,445,843	202,469
1894							5,526	21,187,723	244,358
1893							2,710	14,658,309	
1892							2,260	9,462,074	
1891							6,075	13,659,278	
1890							5,054	11,003,160	
1889							3,830	13,384,385	
1888							5,637	2,600,700	
1887							3,109	4,458,697	
1886							5,616	4,067,133	
1885							5,897	6,240,139	
1884							5,523	6,364,270	
1883							2,837	3,005,946	
1882							5,900	415,611	
1881							5,951	713,549	
1880							5,814	3,444,084	
1879							6,071	6,997,796	
1878							8,199	5,352,630	
1877							8,379	4,992,349	
1876							5,155	1,705,422	
1875							2,582	281,054	
1874							2,658	417,387	

The figures of the Thirteenth Census are not shown in this table because they do not represent a uniform growth year.

DISTRIBUTION OF THE INDUSTRY BY COUNTRIES.

Large quantities of oil seeds are annually imported by Europe and manufactured into oil. Cotton seed forms a considerable portion of the aggregate, but the practice of establishing mills with an assortment of seed supply obtains in a number of countries. Although accurate information relative to the status of the manufacture of cottonseed products throughout the world is not available, the following statement, which has been prepared from more or less reliable sources, is believed to present approximately correct figures for the number of mills engaged in crushing cotton seed, by countries:

COUNTRY.	Number.
Total.....	955
United States.....	810
Russia.....	30
Brazil.....	27
England.....	25
Peru.....	15
China.....	10
Egypt.....	7
Germany.....	6
Mexico.....	5
All other countries.....	20

Russia.—The development of the cottonseed-products industry in Russia has been recent. The first mill was erected in 1892, and this was followed three years later by two more. At the present time there are not less than 30 mills in the country, crushing in the aggregate more than 250,000 tons of seed. Inasmuch as there is reason to expect an increase in the production of cotton, further expansion of the industry in the country is likely to occur. The seed yields about 15 per cent in oil, 38 per cent in oil cake, and 1½ per cent in linters, the balance being hulls and waste.

Brazil.—According to figures published in 1909, there were 27 cottonseed-oil mills in Brazil, several of which were very small. The annual crush is estimated at about 60,000 tons, which is only about 40 per cent of the total production of seed. Small amounts of the remainder are used for cattle feed and for fertilizers, while in remote localities the seed is thrown away or burned. The exports of seed in 1908 amounted to 30,000 tons, of which quantity more than 90 per cent was sent to England.

United Kingdom.—As previously stated, the industry had its beginning on a commercial scale in the United Kingdom, where about 200,000 tons of cotton seed were crushed in 1870. There are about 25 establishments in the United Kingdom engaged in crushing cotton seed. Of these, the majority are situated in the ports of Hull, London, Liverpool, Bristol, and Gloucester, although a few are in Scotland. Hull, with more than a dozen establishments, is the great center

of the industry in the country, about one-half of the total imports of cotton seed being entered there. In a number of mills other seeds are also crushed.

The imports of cotton seed in 1909 form no doubt an approximate measure of the crush in that year. Of the 600,377 long tons imported, Egypt contributed 331,608 tons; India, 183,008 tons; Brazil, 31,745 tons; Turkey, 17,208 tons; Peru, 9,895 tons; United States, 5,701 tons; and "All other countries," 21,212 tons.

As a result of the general practice of crushing the seed without delinting or removing the hulls, a much larger percentage of cake is obtained than by the American mills, although the oil is not of so high a grade as that produced in the United States. This cake, which is more valuable than the oil, is in great demand, practically the entire quantity being used in the country. The oil extracted is not used for edible purposes, but is taken almost exclusively by the soap manufacturers.

Peru.—In 1909 there were 15 cottonseed-oil mills in Peru, located mainly in the Lima and Ica ports of the country, which had a total crush of about 15,000 tons of seed and a total production of between 600,000 and 700,000 gallons of oil. In addition to the quantity crushed, 13,321 tons were exported in the year named. Inasmuch as the annual production of cotton is increasing, it is probable that there will also be an increase in the number of mills crushing seed.

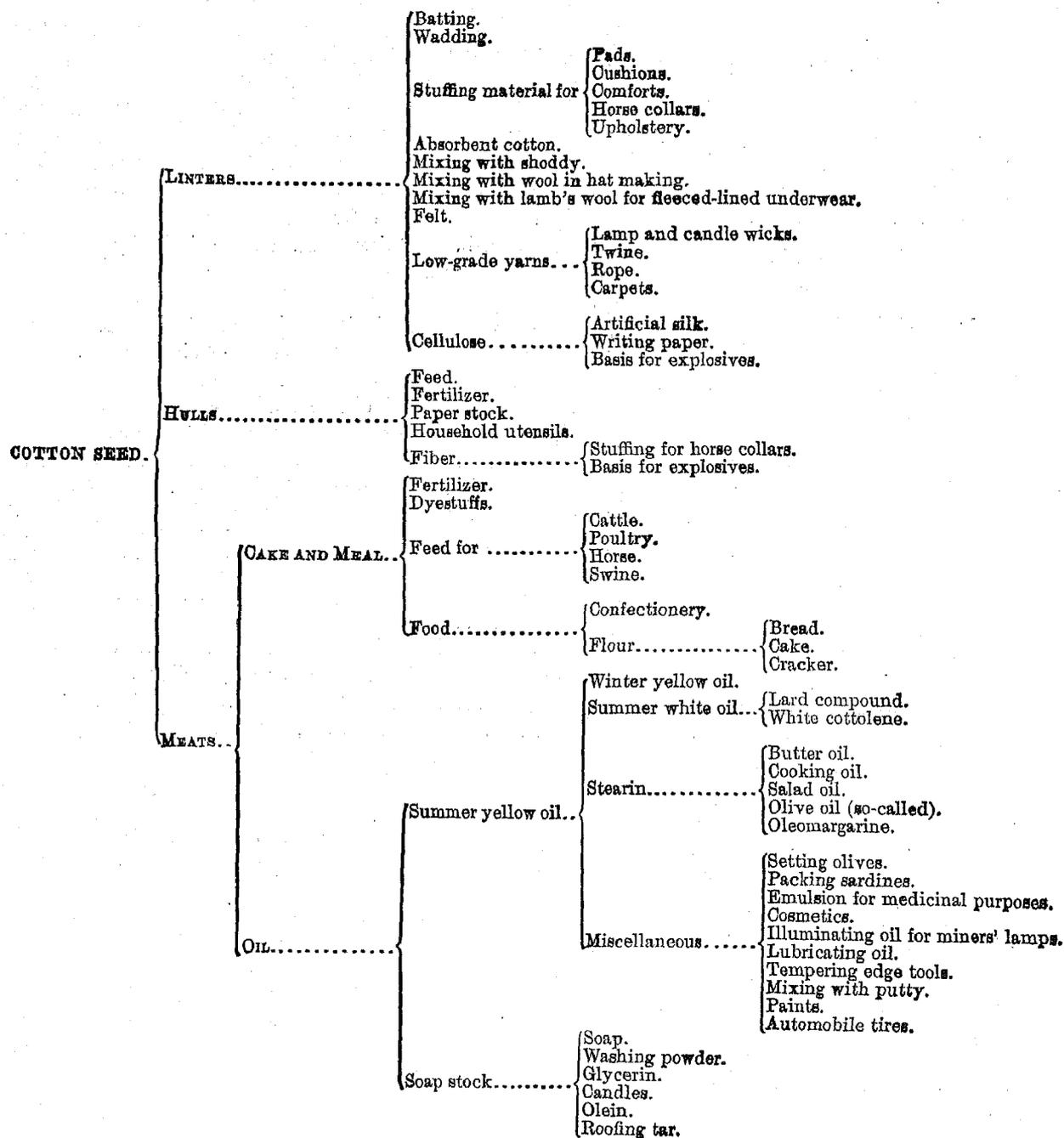
China.—At least 10 cottonseed-oil mills are located in Shanghai, Hankau, and Tunchow; and in addition to these there are a number of mills, especially small hand mills, scattered throughout the country. The seed grown in China is much smaller and contains less oil than the American seed, yielding about 9 per cent in oil, 43 per cent in cake, and 47 per cent in hulls. With the improvement in the cotton grown has also come an improvement in the seed, and as a result the proportions in the yield of the several products may be slightly different from those given.

Other countries.—Cottonseed products are manufactured in a number of other countries, among which may be mentioned Egypt, with seven mills and a crush of more than 100,000 tons of seed annually; Germany, with six mills of considerable importance, one of which, located at Harburg, has a daily capacity of 250 tons; and France and Mexico, with five mills each.

DESCRIPTION AND USES OF COTTONSEED PRODUCTS.

A brief discussion of the several products manufactured from cotton seed and the subsequent uses to which they are put is given below. In the following diagram the various products derived from cotton seed are shown graphically:

DIAGRAM 3.—PRODUCTS AND USES OF COTTON SEED.



Waste.—When the seed is taken from the storage house to the mill for manufacture it is screened, and the sand, bolls, leaves, sticks, and other foreign substances are removed. The quantities of these substances vary according to locality, soil, and season, and according to the care used in picking and ginning the cotton and in handling the seed. The average waste resulting from the screening process in 1909 was 106 pounds per ton of seed entering the mill.

Linters.—The seed as it leaves the ginnyery varies greatly with respect to the amount of lint adhering. Sea-island cotton seed is almost entirely freed from lint by the first ginning, and is therefore not reginned at the oil mill before oil extraction. In the case of upland cotton, however, considerable quantities adhere to the seed, the amount depending on the machines used in ginning, as well as on the condition of the seed cotton. The cottonseed-oil mills regin the seed for the purpose of securing a better separation of the meat from hulls and in that way an increased production of oil. As a result of this closer reginning of the seed, the linter product has deteriorated in quality somewhat in recent years. The quantity of linters obtained from reginning the seed in 1909 was 175,773,077 pounds. Linters are used for upholstering purposes and in the manufacture of cotton batting, felts, cheap yarns, rope, and twine, as well as for a number of other purposes.

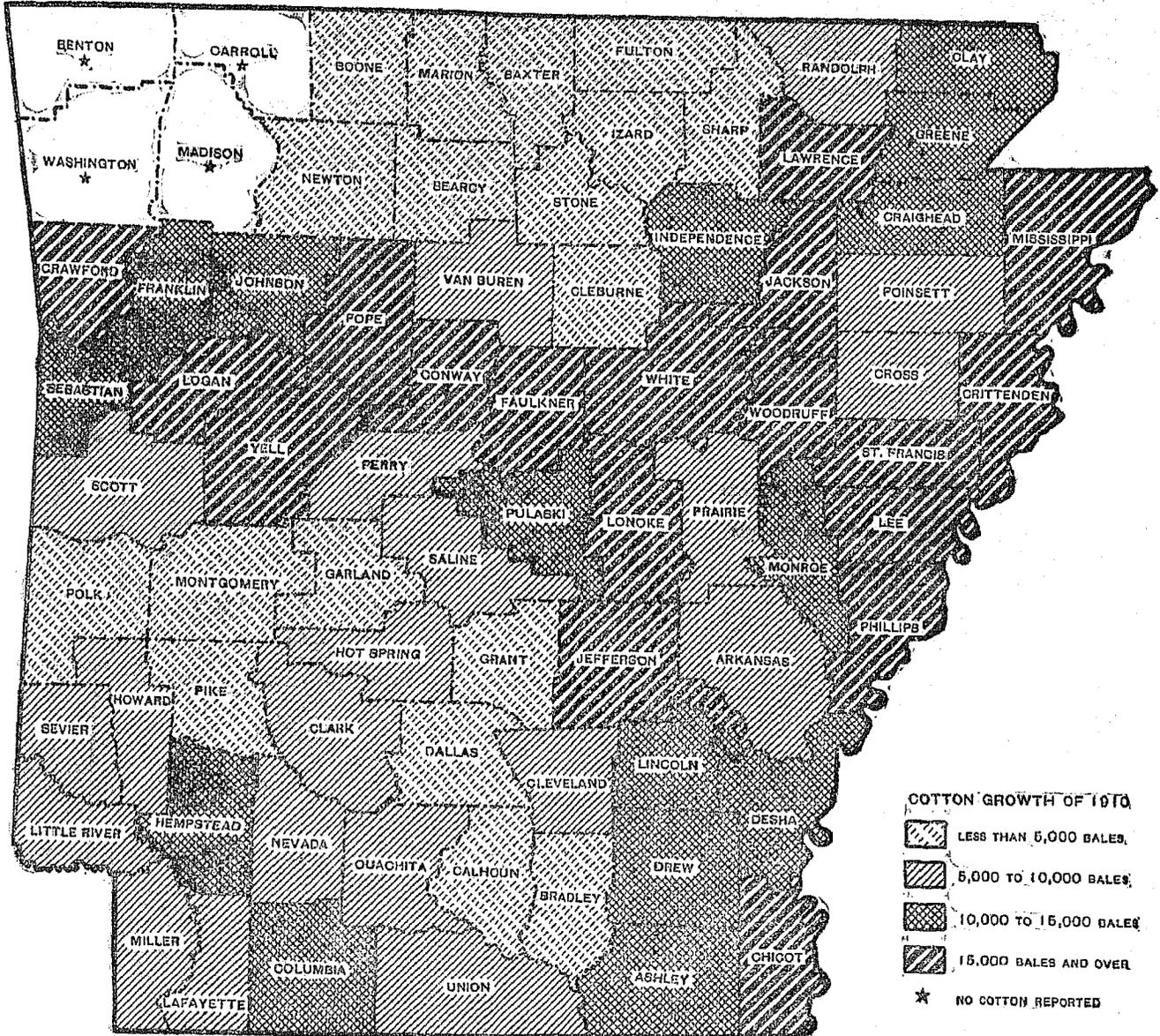
Hulls.—Formerly hulls were used as fuel in generating power for the oil mills, and the ashes thus obtained were found to have a commercial value as a fertilizer. The importance of hulls as a product, however, resulted

from the discovery that a mixture of hulls with cottonseed meal makes an excellent feed. The demand for them in the stock-raising and dairy industries is now so great that they are no longer used for fuel. At the census of 1910 a number of mills reported the mixing of feed for the purpose of utilizing hulls to the greatest advantage.

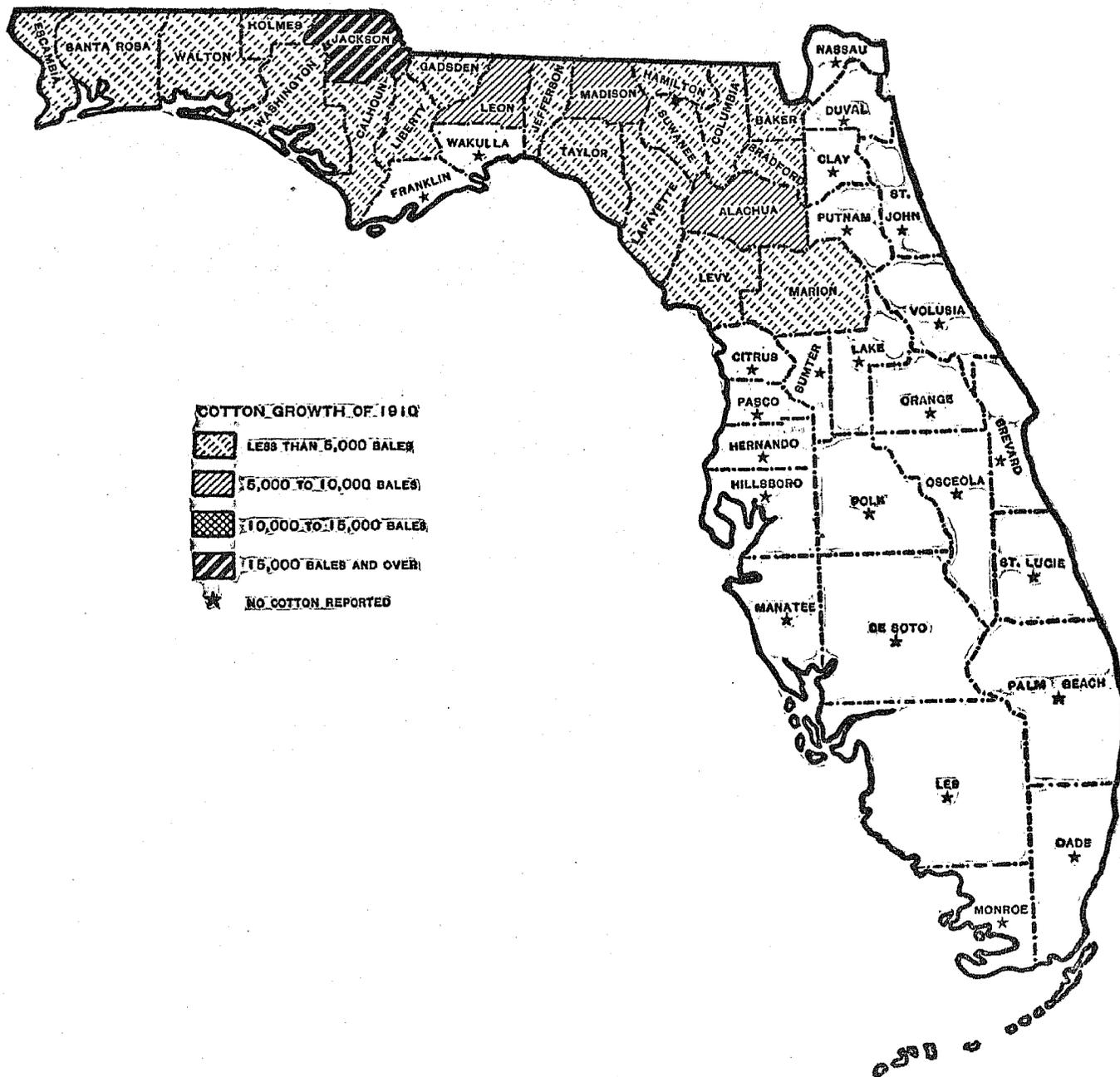
Meal and cake.—The chief demand for cottonseed cake and meal is for stock-feeding purposes and as an ingredient in the manufacture of fertilizers. For both these purposes this product has been used so extensively that it has acquired a value almost equal to that of oil. Experiments show that flour made from the meal may be used in the manufacture of bread, cakes, crackers, and the like.

Oil.—The process of extracting oil from the seed is practically the same as that used 30 years ago, although many changes and improvements have been made in the machinery. In methods of refining, however, and in the products thus obtained, great advances have been made in recent years. With these improvements in refining methods, new uses for cottonseed oil have developed, among the most important of which is the manufacture of lard compounds. Cottonseed oil is also used in the manufacture of butterine and a number of other foodstuffs, and large quantities, especially of the poorer grades and settlings of crude oil and of the residue of refined oil, are used in the manufacture of soaps and products such as glycerin, candle stock, olein, etc. The many other uses found for cottonseed oil are shown in the diagram above.

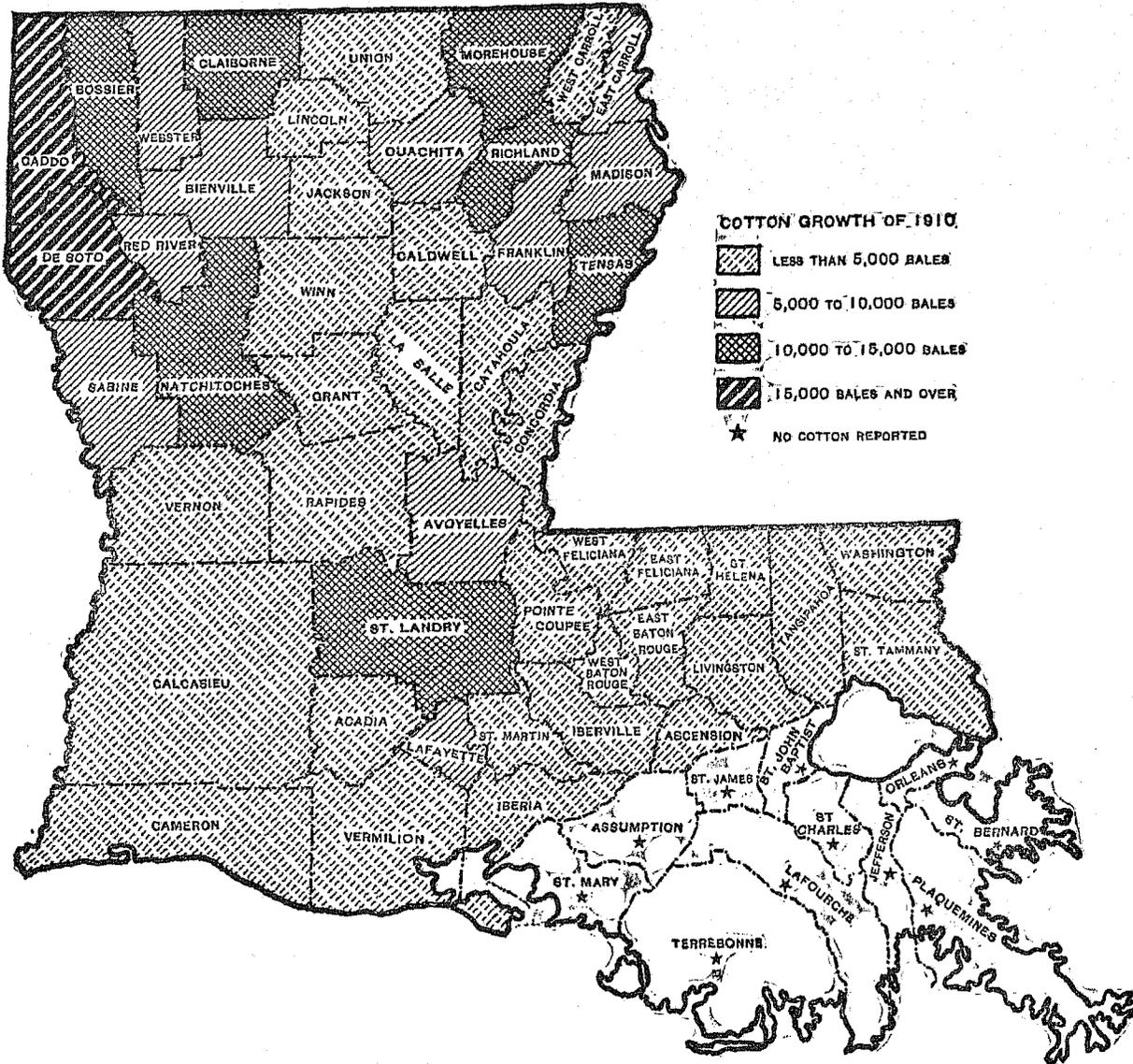
ARKANSAS.



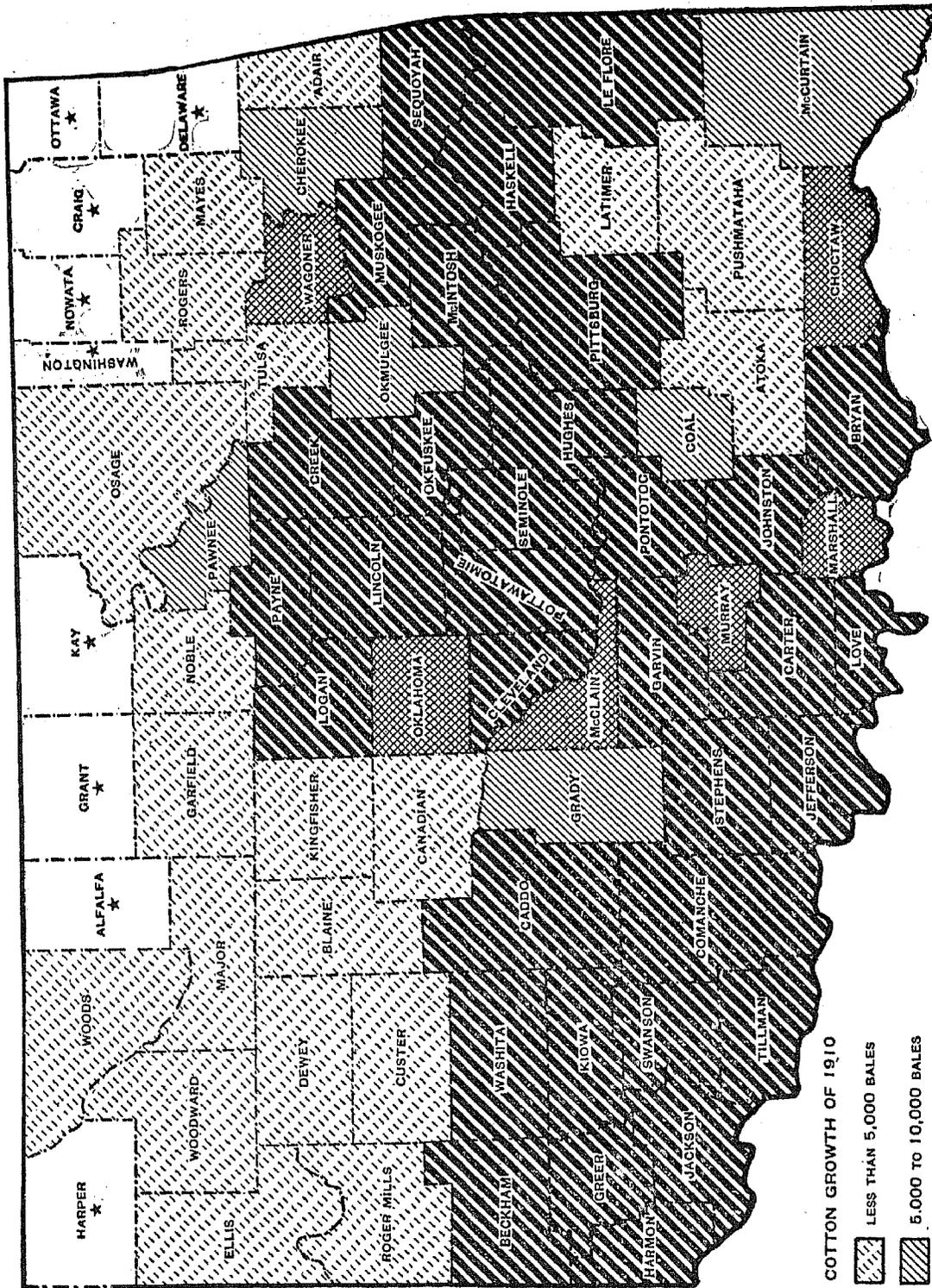
FLORIDA.



LOUISIANA.



OKLAHOMA.



COTTON GROWTH OF 1910

-  LESS THAN 5,000 BALES
-  5,000 TO 10,000 BALES
-  10,000 TO 15,000 BALES
-  15,000 BALES AND OVER
- ★ NO COTTON REPORTED



TEXAS.

